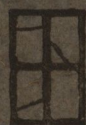


177

INTERNATIONAL CEMENTS



INTERNATIONAL CEMENT CO. INC.
JAMESTOWN NEW YORK
TORONTO CANADA



FRANK BETHUNE

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FRANK BETHUNE

INTERNATIONAL CASEMENTS

FRANK BETHUNE



RESIDENCE, ALAN LEHMAN, ESQ., TARRYTOWN, N. Y.
JOHN RUSSELL POPE, ARCHITECT

THE · INTERNATIONAL CASEMENT · CO · INC

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CASEMENT AND COMPOSITE WINDOWS
CASEMENT WINDOW HARDWARE
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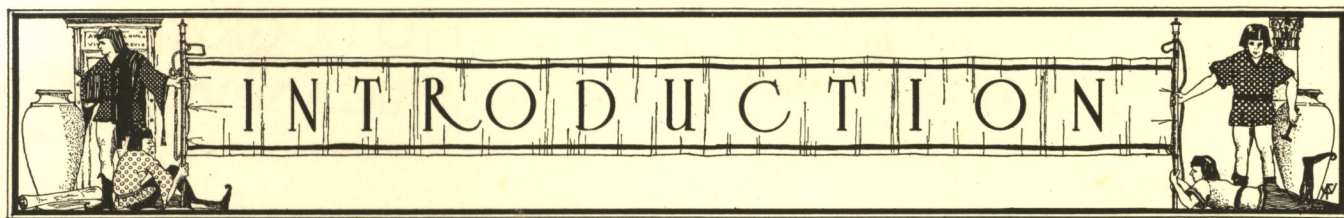
ARCHITECTURAL BRONZE AND IRON WORKS
LANSDOWNE AND ROYCE AVENUES :: TORONTO, ONTARIO

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CATALOGUE
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Since publishing our large catalogue in 1913 the use of casement windows has grown considerably, and for certain types of buildings they are now considered absolutely essential.

It is a pleasure to look back over these years and to review the large number of contracts executed by us. The many commendations we receive make us realize that our determination to produce and maintain first-class workmanship has been recognized. The illustrations in this edition will amply bear this out.

The three-point weathering casement, with its two perfect contact points and additional center members which considerably strengthen the sash frame and act as baffle against wind and rain, is still the standard for strength and absolute weathertightness in the most exposed positions, and we hope, when the best only is desired, each Architect will continue to specify "INTERNATIONAL THREE-POINT CASEMENTS."

LIST PRICES

It is impossible to issue, for such a varied product, a price list that would be of service, owing to the many different designs, methods of construction, types of hardware and swing of sashes. We have, therefore, not attempted it in this book, but we are ready at all times to furnish estimates promptly and to make details to meet special conditions.

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We have excellent facilities for handling small or large contracts for export. Our many years' successful experience insures the work being received at destination correct to details and in good condition.

We solicit inquiries for export work.

JAMESTOWN
NEW YORK
OCTOBER, 1922

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
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FORM OF SPECIFICATION RECOMMENDED FOR THE USE OF ARCHITECTS

All casement windows and transoms shall be of solid rolled steel as manufactured by the International Casement Co., Inc., Jamestown, New York, or equal in the opinion of the Architect.

SCOPE OF WORK	This contractor shall furnish frames and sash with all necessary hardware and shall set same after the plastering is completed.
WORK NOT INCLUDED	Glass, glazing and final coat of paint after erection and glazing. Insect screens or any preparation for same.
STEEL	Sections to be of special shapes and of a weight suitable for the size of sash. Bars to be free from imperfections and hydraulically straightened.
CONSTRUCTION	All joints accurately machined and electrically welded. All corners cleaned free from flux. Sash and frames to be carefully fitted and bedded to insure perfect weather-tightness and easy operation.
GLAZING BEADS .	These are to be furnished by this contractor of molded steel, set with brass screws, corners carefully mitred. The glazing is included under another contract, but the sash manufacturer shall furnish the glazier with instructions for the proper wedging of the glass in the frames to prevent sagging of the sash.
PAINTING	Bars to be cleaned free from rust and scale, and painted one coat filler, two coats lead and oil paint, each coat baked on separately. Final coat of paint applied by others after erection and glazing.
HARDWARE	All necessary hardware and operating devices shall be furnished and applied by this contractor. Casements shall have solid bronze casement fastener and double bar bronze sliding adjuster. All casements over 5'0" high shall have in addition to fastener, double grip bolt with steel rod for securing sash top and bottom. Transoms shall be operated by openers operated by hand, pole hook or by endless cords in accordance with the height from floor.
ERECTION	The casements and transoms together with hardware shall be set by this manufacturer after the plastering is completed. If to stone, lead expansion shields shall be used together with brass screws. Frames to be bedded and pointed inside and out in International Mastie cement. To be finished in a workmanlike manner and guaranteed weathertight.
SWINGING OR FIXED SASH	The sash to swing are marked thus  on elevations, openings not so marked to have rolled steel fixed sash with welded corners and to be constructed of sections to give same sight line and plane of glass as the swinging sash.
ALTERNATE FOR FIXED SASH	In Tudor or Gothic work it is customary to glaze the stationary leaded glass without the use of steel fixed sash. If this is desired, the following form of specification should be used. "The sash to swing are marked thus  on elevations, sash not so marked are to have stationary leaded glass glazed direct without the use of steel fixed sash."
CASEMENT DOORS	The openings marked on the plans or elevations "Casement Doors" are to operate from both inside and outside. For these furnish heavy cast bronze saddles or thresholds, steel kick-plates and special weatherstrips at the sill. Special bronze latch with dead bolt to be thrown on inside by thumb piece, and solid bronze lever handles of good design. Each leaf to have bronze friction adjuster at head and bronze top and bottom bolts.
NOTE	If fly screens are to be used it is better to specify the cast bronze saddle to be double rebated to suit both casements and screens. Screens to be furnished under separate contract.
SYMBOLS	If necessary to designate on the elevations the type of sash to be furnished, the following symbols can be used: "SHO" Side Hinged Swinging Out. "SHI" " " " " In. "DFO" Pairs French Casements Swinging Out. "DFI" " " " " In. "CDO" Casement Doors swinging out with bronze saddles and lever handles. "CDI" Casement Doors swinging in with bronze saddles and lever handles. "VP" Vertically Pivoted Casement. "THO" Top Hinged Transom Swinging Out. "BHI" Bottom " " " " In. "HP" Horizontally Pivoted Transom. Lower part swinging out. "FS" Steel Fixed Sash. "FLG" Fixed Leaded Glass glazing direct, without steel fixed sash.

FORM OF SPECIFICATION RECOMMENDED FOR THE USE OF ARCHITECTS

All sub-frames, mullions, transom bars, swinging and stationary sash, to be of steel as manufactured by the International Casement Co., Inc., Jamestown, N. Y., or equal, in the opinion of the Architect.

SCOPE OF WORK	This contractor shall furnish steel sub-frames to be built in as described below, and shall furnish and set into same, after plastering is completed, or at such time as is most suitable and agreed upon, the steel sash with hardware, operating devices as hereinafter described.
WORK NOT INCLUDED	This contractor will not include the reassembling, setting up, building in and pointing of the sub-frames, nor will he include the glass, glazing, insect screens, or final coats of paint after erection and glazing.
BUILT-IN SUB-FRAMES . .	Trade name, "Biltin-frames." This contractor shall furnish and deliver to the building "Biltin" frames of type and profile shown on drawings; at time most suitable to the requirements of the building; to be set up and built into masonry by mason contractor. Frames shall be of No. 12 gauge steel (or No. 11 gauge Ingot iron). The corners shall be welded solid to form one complete frame, unless the frames are of too great a size for shipment in ordinary box car, in which event they shall be assembled at factory with screwed and plated joints; then dissembled, packed and shipped "K. D." The frames shall be painted two heavy coats rust-resisting paint, each coat separately baked on. The mason contractor will be required to set frames plumb and level and in close contact with masonry reveal at sides and head and resting solid on sill. After setting, wood spreaders or braces shall be placed in the frames to insure the frames holding true and square in shape.
STEEL	See copy on opposite page.
CONSTRUCTION .	See copy on opposite page.
GLAZING BEADS .	See copy on opposite page.
PAINTING	See copy on opposite page.
HARDWARE	See copy on opposite page.
ERECTION	See copy on opposite page.
SWINGING OR FIXED SASH . . .	See copy on opposite page.
GEARED OPERATORS (Rod Gear'g)	If any swinging portions of sash, or groups of sash are to be operated by geared operators singly or simultaneously, use form of specification on page 50.
SYMBOLS	The same symbols for opening sash can be used as described on opposite page.
GLAZING	Under glazier's specification we recommend the following clause — "The Sash Manufacturer will provide steel glazing beads fitted to the sash; glass to be bedded back and front in first quality steel sash putty. Each light of glass in swinging sash to be properly wedged in accordance with instructions of the sash manufacturer. Glazing beads to be reset after glazing and all screws carefully replaced."

MAXIMUM SIZES TO WHICH CASEMENTS CAN BE MADE

Two Point Section	Maximum width 22" Maximum height 54"
Three Point Medium Section	Maximum width 30" Maximum height 72"
Three Point Heavy Section	Maximum width 36" Maximum height 96"

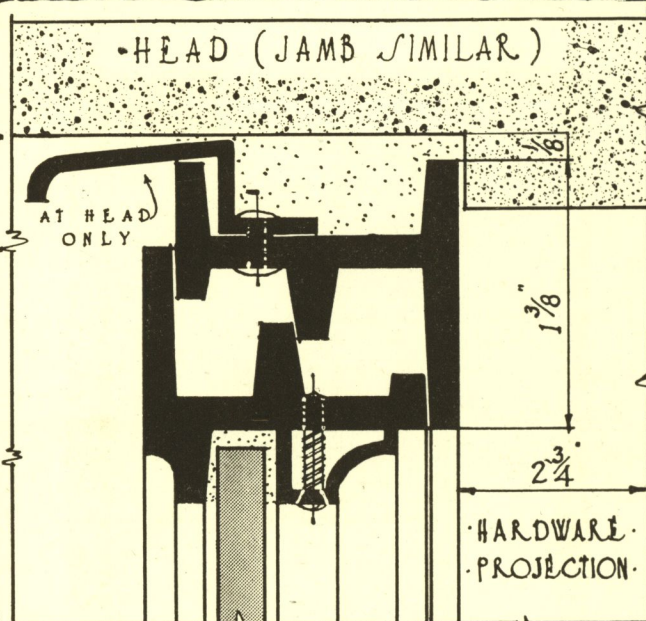
For pairs of casements double the above widths.

Vertically pivoted casements can be made of heavy section up to 4' 6" in width, pivoted in center.

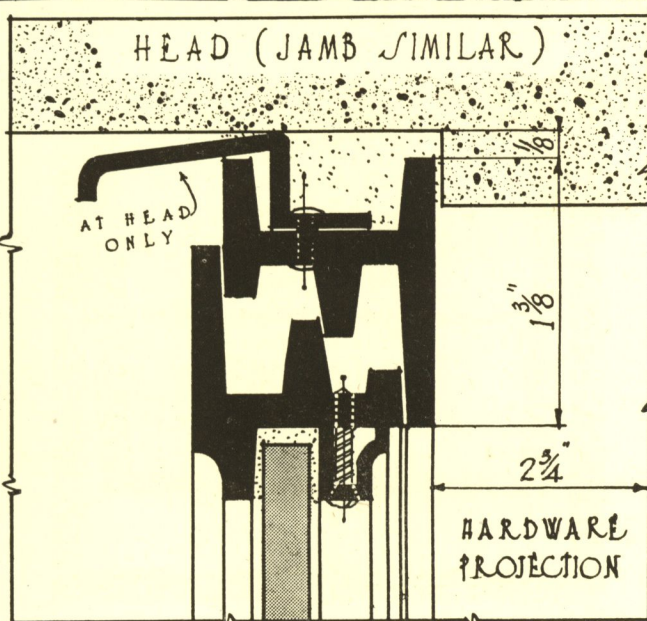
The addition of steel muntins should not be relied upon to reinforce the casement and permit of casements being of larger size than the maximum given above. The above sizes are for general guidance and can be departed from under certain conditions. Please refer each special case to the factory.



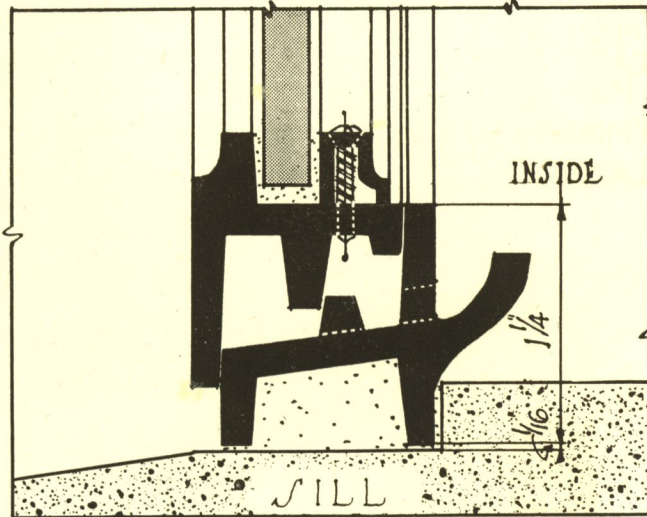
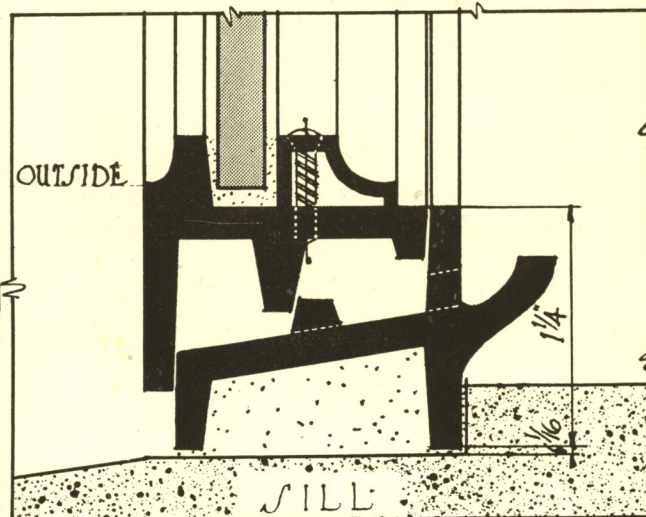
INTERNATIONAL CASEMENTS



• HEAVY • SECTION •
• FOR • CASEMENTS •
• OVER • 6'-0" • HIGH •



• MEDIUM • SECTION •
• FOR • CASEMENTS •
• UNDER • 6'-0" • HIGH •



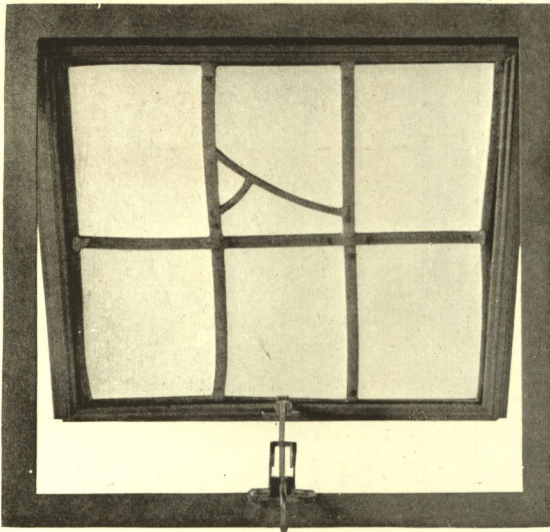
• FULL • SIZE • DETAILS •
• THREE • POINT • SECTIONS • NO 1
• SWINGING • OUT • SINGLE • OR • IN • PAIRS •



I.C.Co.



INTERNATIONAL CASEMENTS



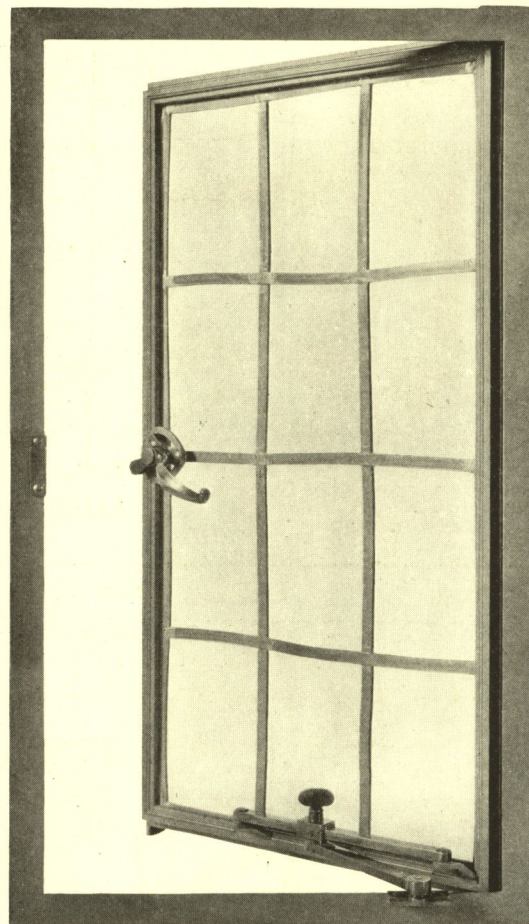
TOP HINGED TRANSOM SASH SWINGING OUT, MEDIUM SECTION. CAM OPENER NO. 78, WHICH OPERATES EITHER BY HAND OR POLE HOOK.

NOTE: IF DESIRED TOP HINGED TRANSOMS CAN BE FITTED WITH PIN ADJUSTER NO. 71, SEE PAGE 45—USED WHEN IN REACH FROM FLOOR.



INTERNATIONAL CASEMENTS ARE HUNG ON DROP FORGED STEEL PIVOT HINGES BUSHED WITH BRONZE.

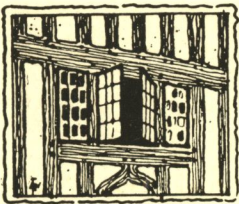
THEY ARE SUPERIOR IN APPEARANCE AND STRENGTH TO BRASS BUTTS.



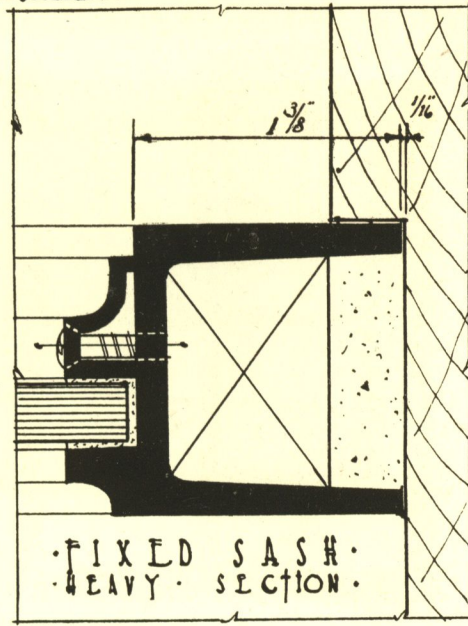
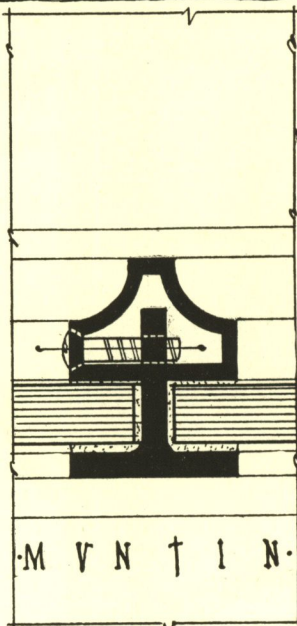
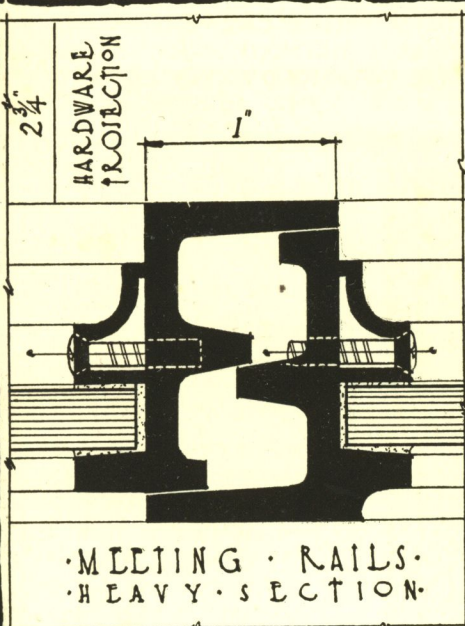
SIDE HINGED CASEMENT SWINGING OUTWARDS — MEDIUM SECTION. FASTENER NO. 61-80. BACK PLATE NO. 82. SLIDING ADJUSTER NO. 77.

NOTE: ALL OUTWARD OPENING CASEMENTS 5' 0" HIGH AND OVER HAVE DOUBLE GRIP BOLT IN ADDITION TO FASTENER. SEE PAGE 46 FOR ILLUSTRATION.

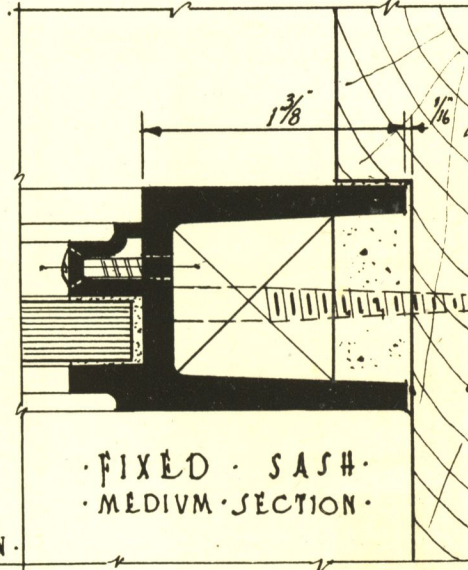
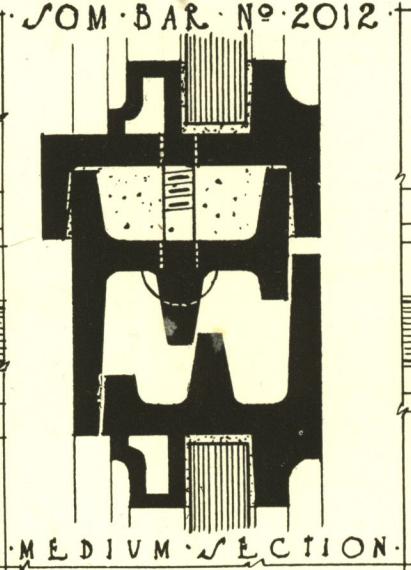
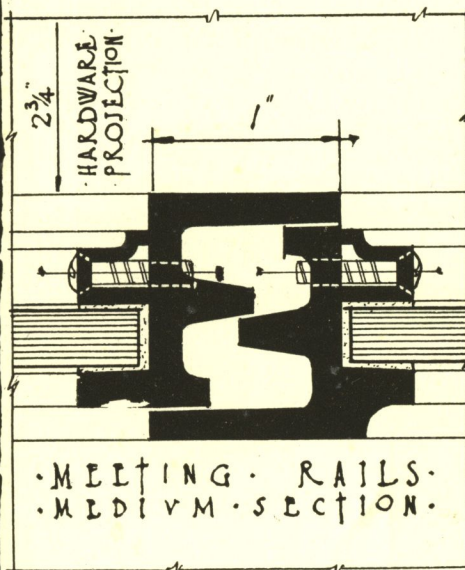
NOTE; CASEMENTS ILLUSTRATED ABOVE ARE GLAZED WITH LEADED GLASS IN ANTIQUE LEADING



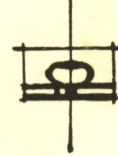
INTERNATIONAL CASEMENTS



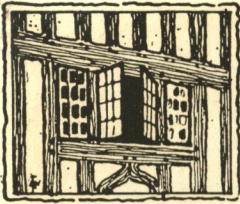
MULLION OR TRANSOM BAR NO. 2012



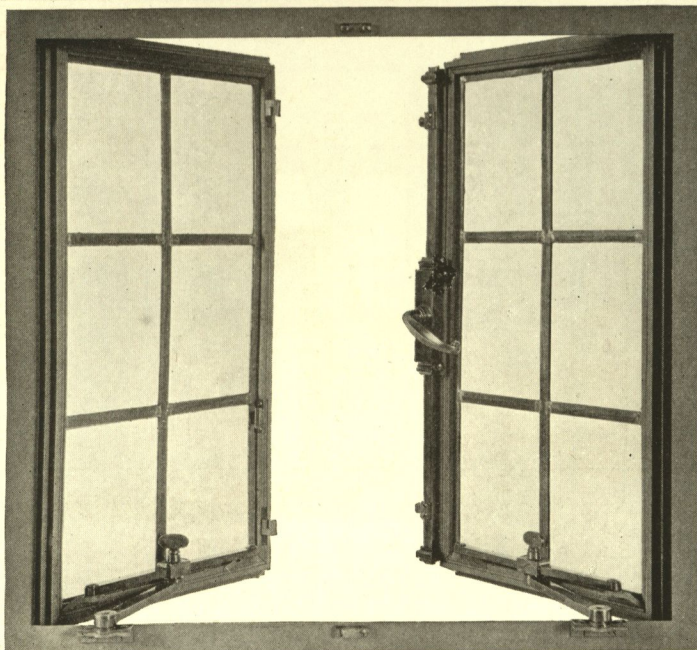
FULL SIZE DETAILS
HEAVY & MEDIUM MEETING RAILS FOR CASEMENTS
OPENING AS PAIRS ALSO FIXED SASH



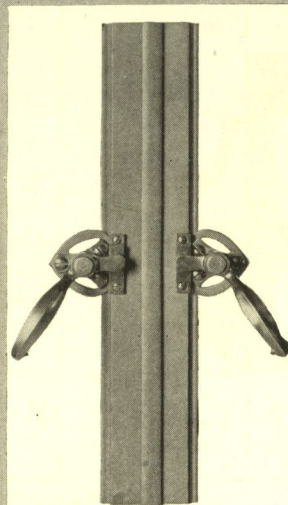
I.C. Co.



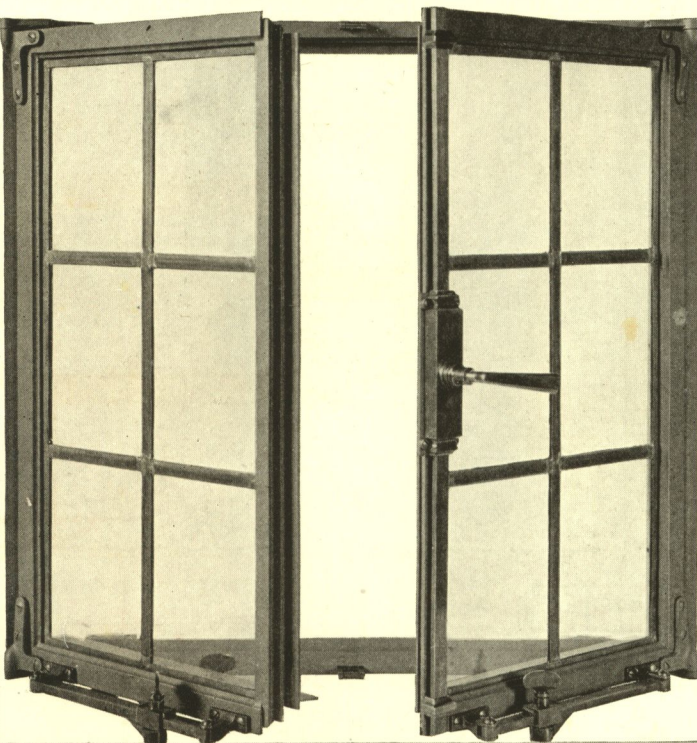
INTERNATIONAL CASEMENTS



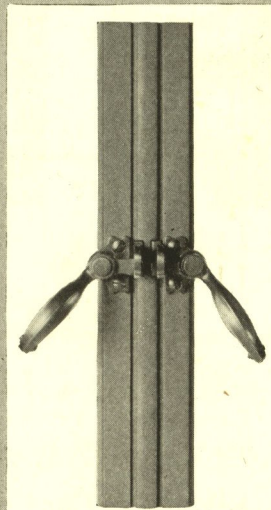
INTERNATIONAL FRENCH CASEMENTS SWINGING OUTWARDS, WITHOUT FIXED MEETING RAIL. FITTED WITH SOLID BRONZE CREMONE BOLT NO. 61/160. SLIDING ADJUSTER NO. 77.



PHOTOGRAPH OF FIXED MULLION BETWEEN PAIRS OF CASEMENTS. THIS IS STRONGLY RECOMMENDED FOR USE IN PUBLIC OR SEMI-PUBLIC BUILDINGS.



INTERNATIONAL FRENCH CASEMENTS SWINGING INWARDS, WITHOUT FIXED MEETING RAIL. FITTED WITH SOLID BRONZE CREMONE BOLT NO. 57/160. SLIDING ADJUSTER NO. 77 FITTED ON INSIDE. SEE DETAILS PAGE 16.

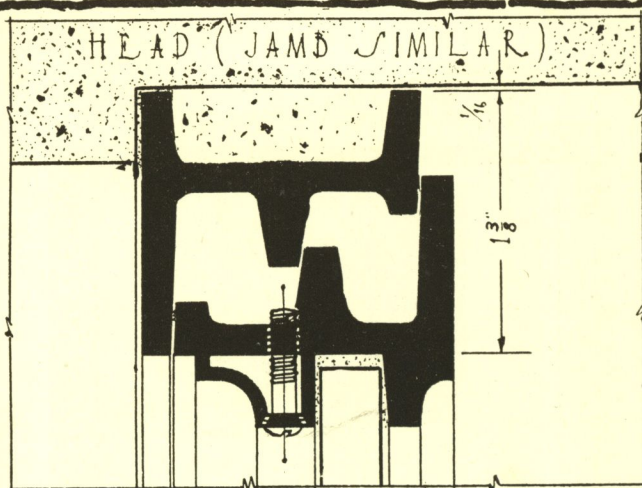


PHOTOGRAPH OF FIXED MULLION BETWEEN PAIRS OF CASEMENTS. THIS IS STRONGLY RECOMMENDED FOR USE IN PUBLIC OR SEMI-PUBLIC BUILDINGS.

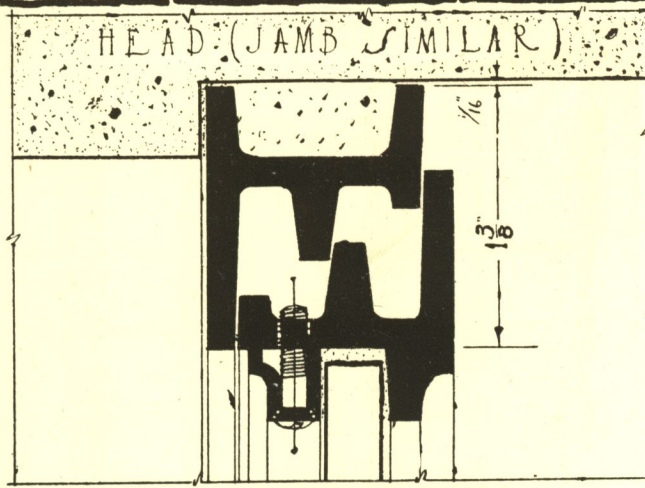
SEE PAGES 24, 25, 26 AND 27 FOR CASEMENT DOORS.



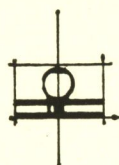
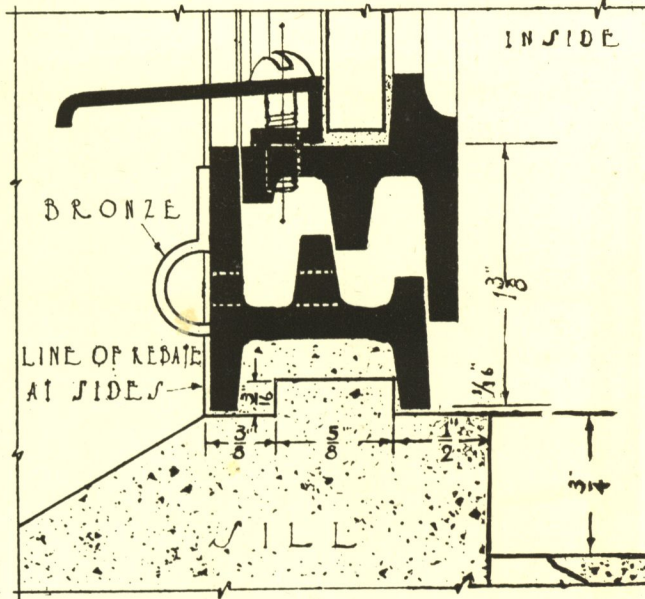
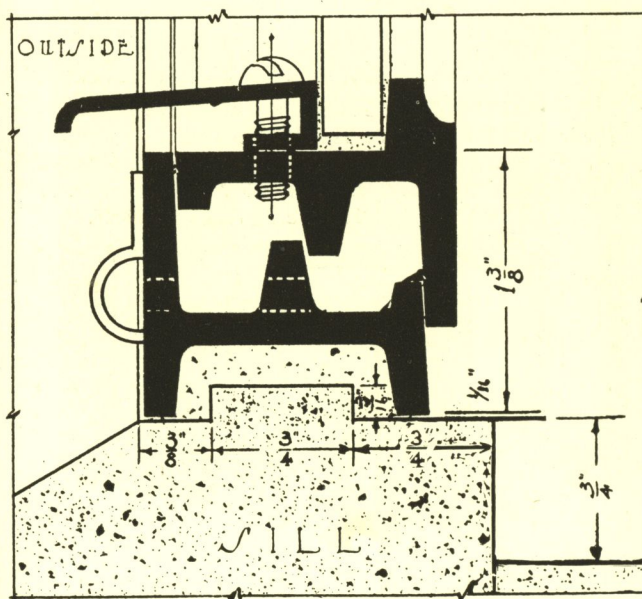
INTERNATIONAL CASEMENTS



• HEAVY • SECTION •
• FOR • CASEMENTS •
• OVER • 6'-0" • HIGH •



• MEDIUM • SECTION •
• FOR • CASEMENTS •
• UNDER • 6'-0" • HIGH •



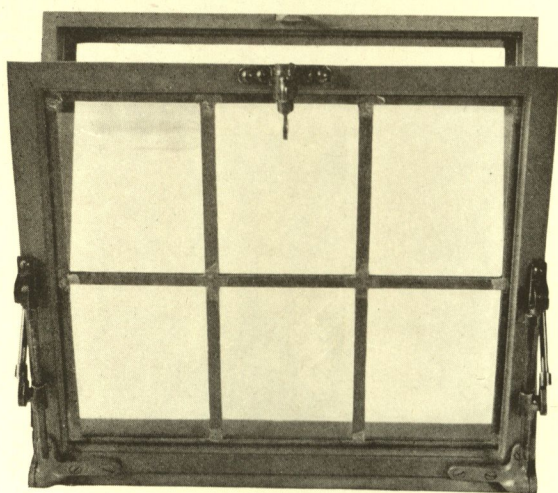
• FULL • SIZE • DETAILS •
• THREE • POINT • SECTIONS • NO • 1 A •
• SWINGING • IN • SINGLY • OR • IN • PAIRS •



I.C. Co.



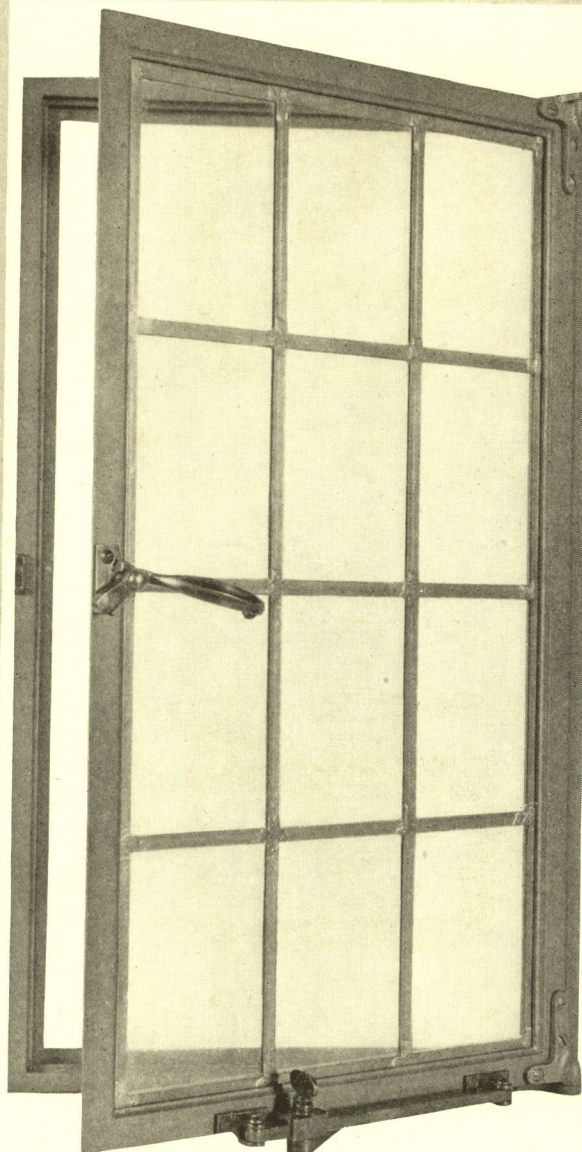
INTERNATIONAL CASEMENTS



BOTTOM HINGED TRANSOM SWINGING IN. FITTED WITH HEAVY BRONZE SPRING CATCH NO. 116, AND INTERNATIONAL FOLDING SIDE ARMS WHICH ALLOW SASH TO FALL RIGHT BACK FOR CLEANING PURPOSES.

NOTE: LARGE TRANSOMS ARE FITTED WITH RACK AND WHEEL DEVICE NO. 111 WORKED BY ENDLESS CORDS. SEE PAGE 47 FOR ILLUSTRATION.

SPECIAL NOTE: IT IS VERY DESIRABLE TO HAVE THE ADJUSTERS ON CASEMENTS SWINGING INWARDS ON THE INSIDE OF THE SASH. IN ORDER TO DO THIS THE DETAILS AT THE SILL MUST BE PREPARED AS SHOWN ON PAGE 16. WE WILL GLADLY FURNISH FURTHER DETAILS ON REQUEST.



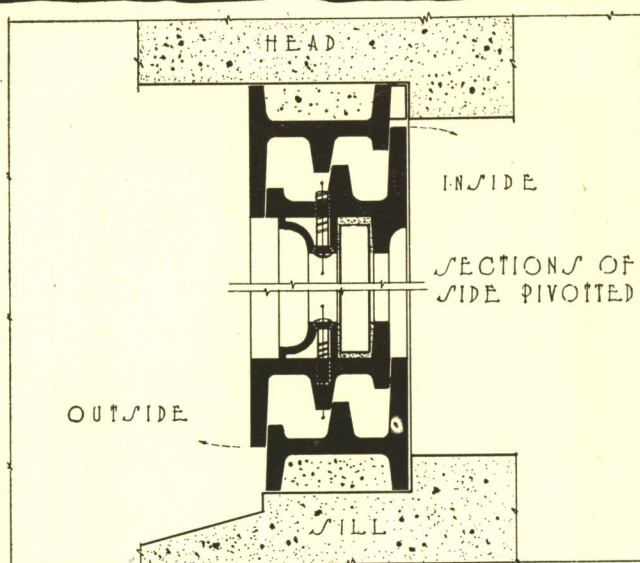
SIDE HINGED CASEMENT SWINGING INWARDS. FITTED WITH FASTENER NO. 61-86 AND SLIDING ADJUSTER NO. 77 ON INSIDE OF SASH.

NOTE: ALL SIDE HINGED CASEMENTS 5' 0" AND OVER ARE FITTED WITH DOUBLE GRIP BOLT IN ADDITION TO FASTENER. SEE PAGE 46 FOR ILLUSTRATION.

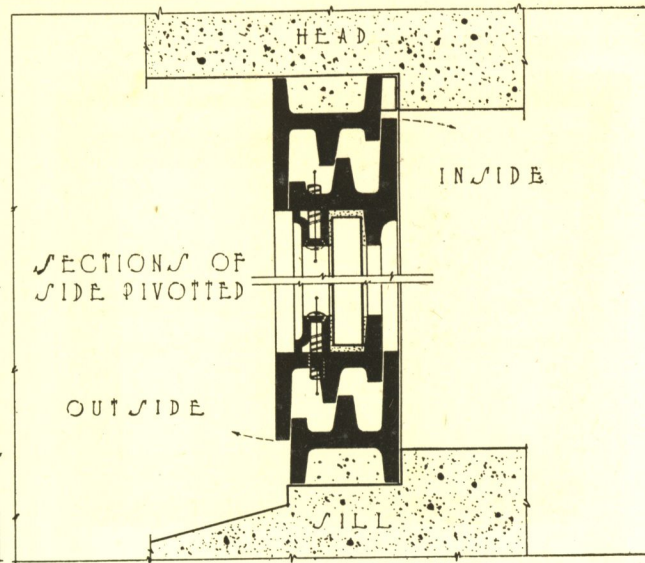
SEE PAGE 15 FOR PHOTOGRAPHS OF FRENCH CASEMENTS.



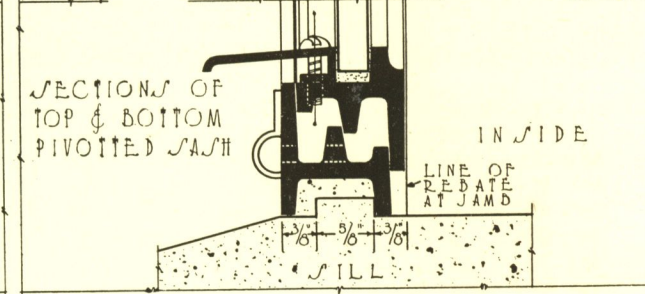
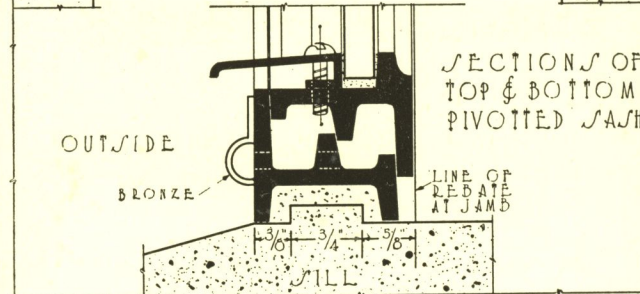
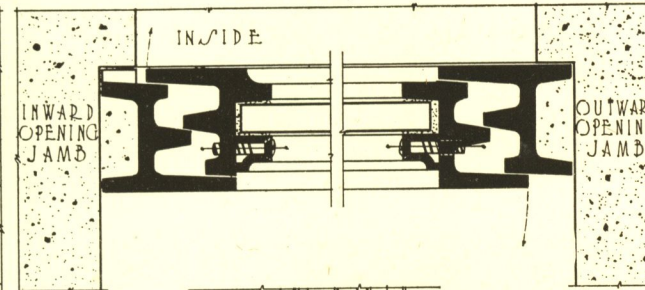
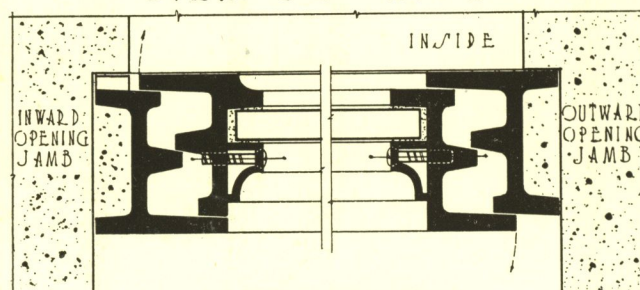
INTERNATIONAL CASEMENTS



HEAVY SECTION
FOR CASEMENTS
OVER 6'-0" HIGH



MEDIUM SECTION
FOR CASEMENTS
UNDER 6'-0" HIGH

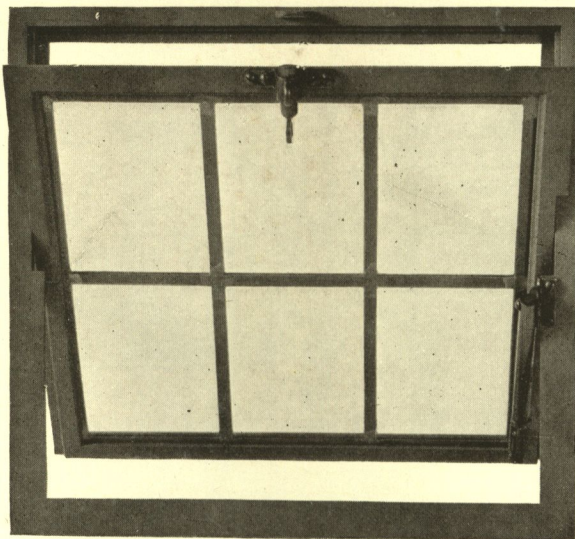


HALF FULL SIZE DETAILS
VERTICALLY AND HORIZONTALLY
PIVOTTED CASEMENTS & TRANSOMS

FULL SIZE DETAILS FURNISHED ON REQUEST

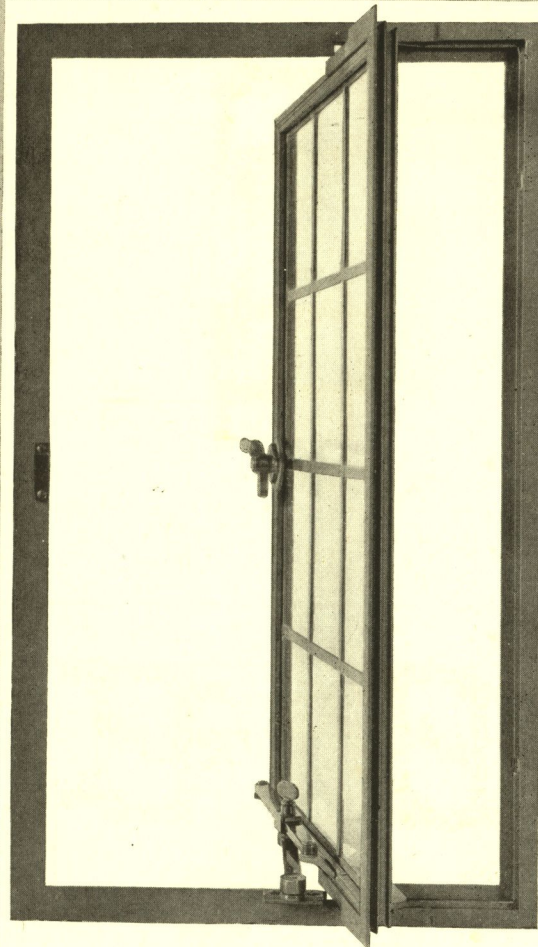


INTERNATIONAL CASEMENTS



HORIZONTALLY PIVOTED TRANSOM SASH,
FITTED WITH HEAVY BRONZE SPRING CATCH
NO. 116 AND FRICTION ADJUSTER.

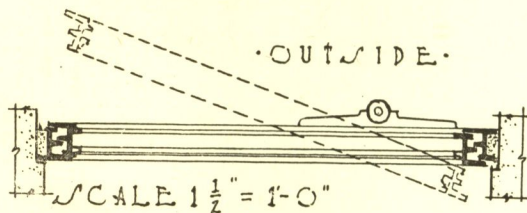
NOTE: SASHES OVER 30" WIDE HAVE TWO
FRICTION ADJUSTERS.



VERTICALLY PIVOTED CASEMENT, FITTED
WITH BRONZE FASTENER NO. 57-80, BACK
PLATE NO. 82, SLIDING ADJUSTER NO. 77.

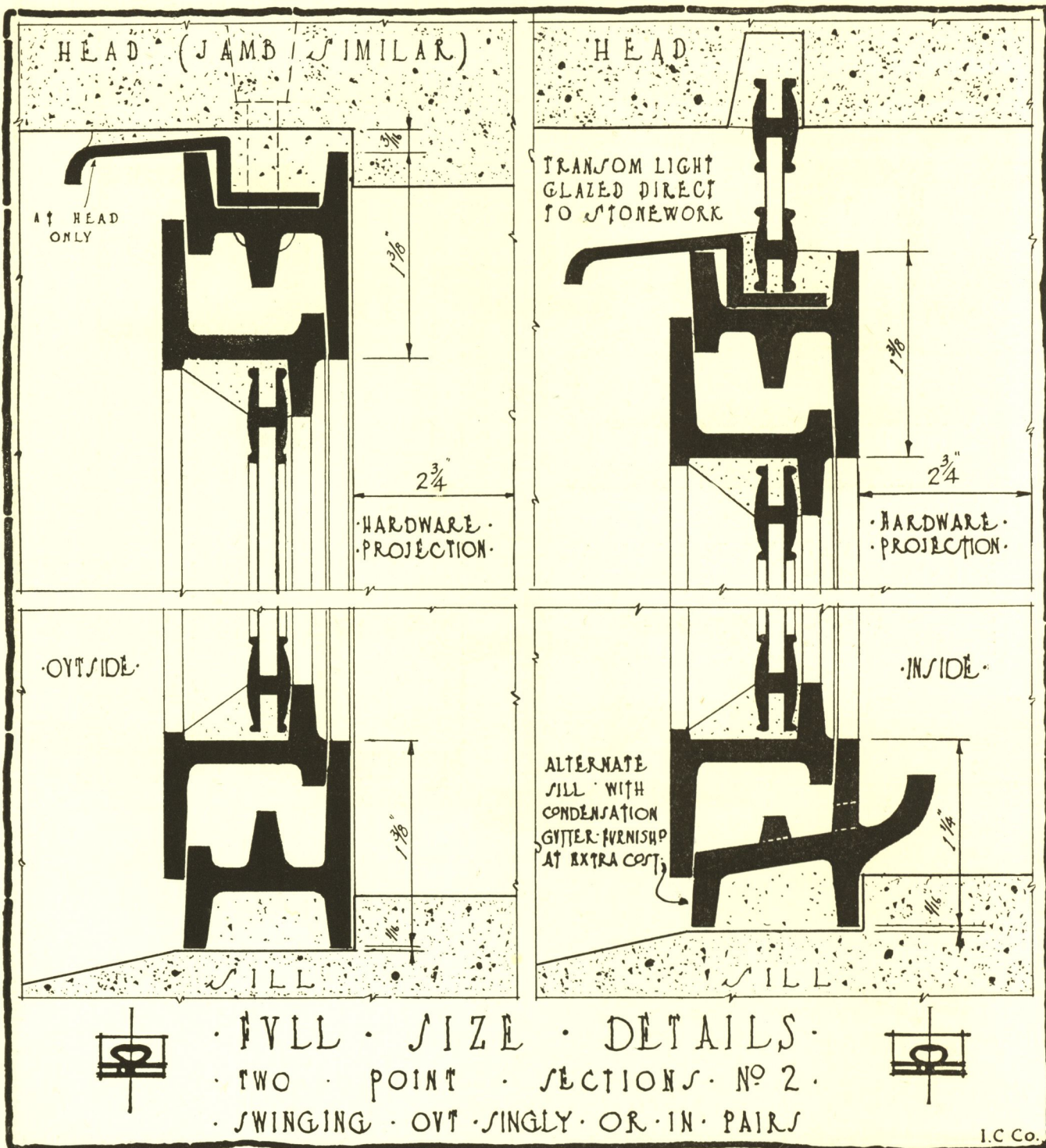
NOTE: WHEN HUNG OFF CENTER, PRO-
JECTION INSIDE ROOM DOES NOT EXCEED
 $2\frac{3}{4}$ " AND THUS DOES NOT INTERFERE WITH
FLY SCREENS.

INTERNATIONAL VERTICALLY AND HORIZON-
TALLY PIVOTED CASEMENTS ARE HUNG ON
BRONZE STRAP HINGES.





INTERNATIONAL CASEMENTS



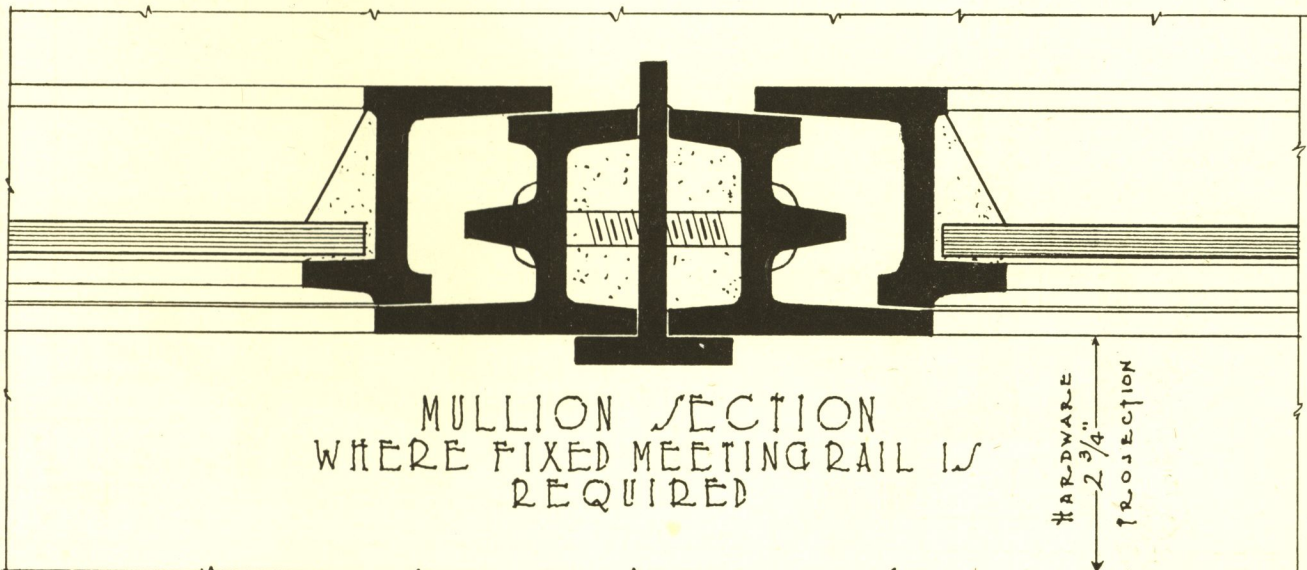
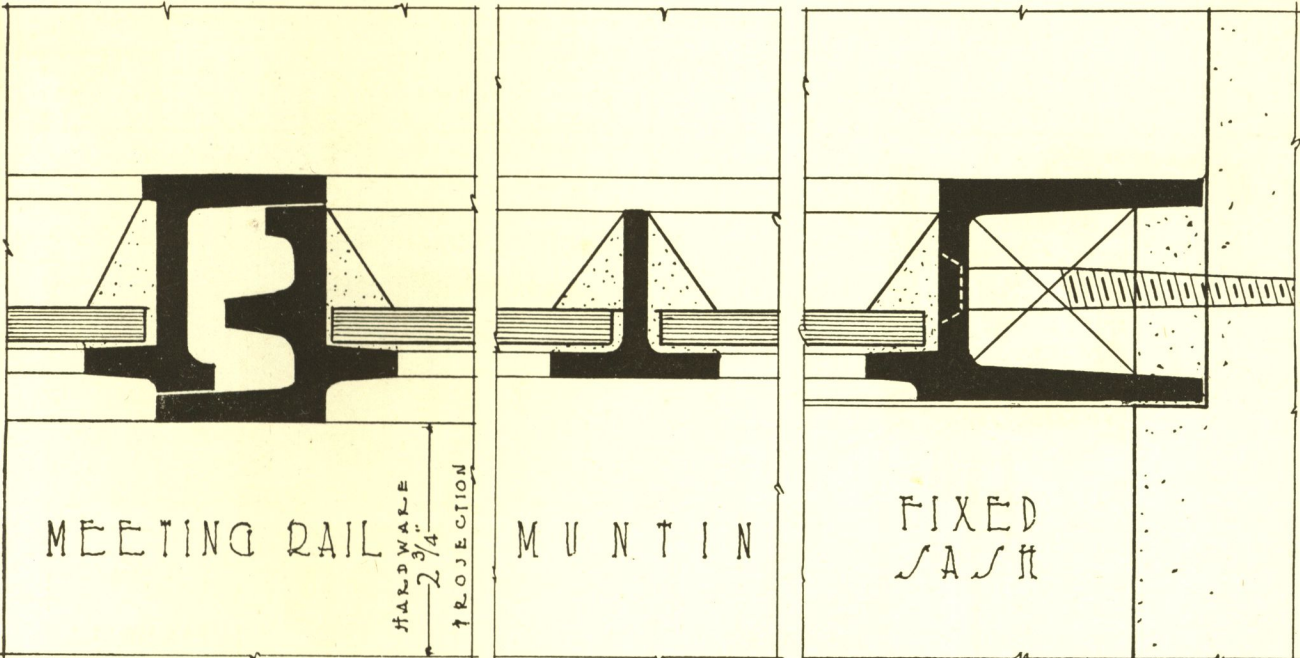
NOTE: THIS SECTION NOT RECOMMENDED OVER 24"x48" OR 22"x54"
USE THREE-POINT SECTIONS OVER THESE SIZES.



INTERNATIONAL CASEMENTS



FRANK BETHUNE

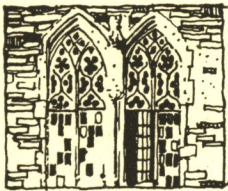


FULL SIZE DETAILS

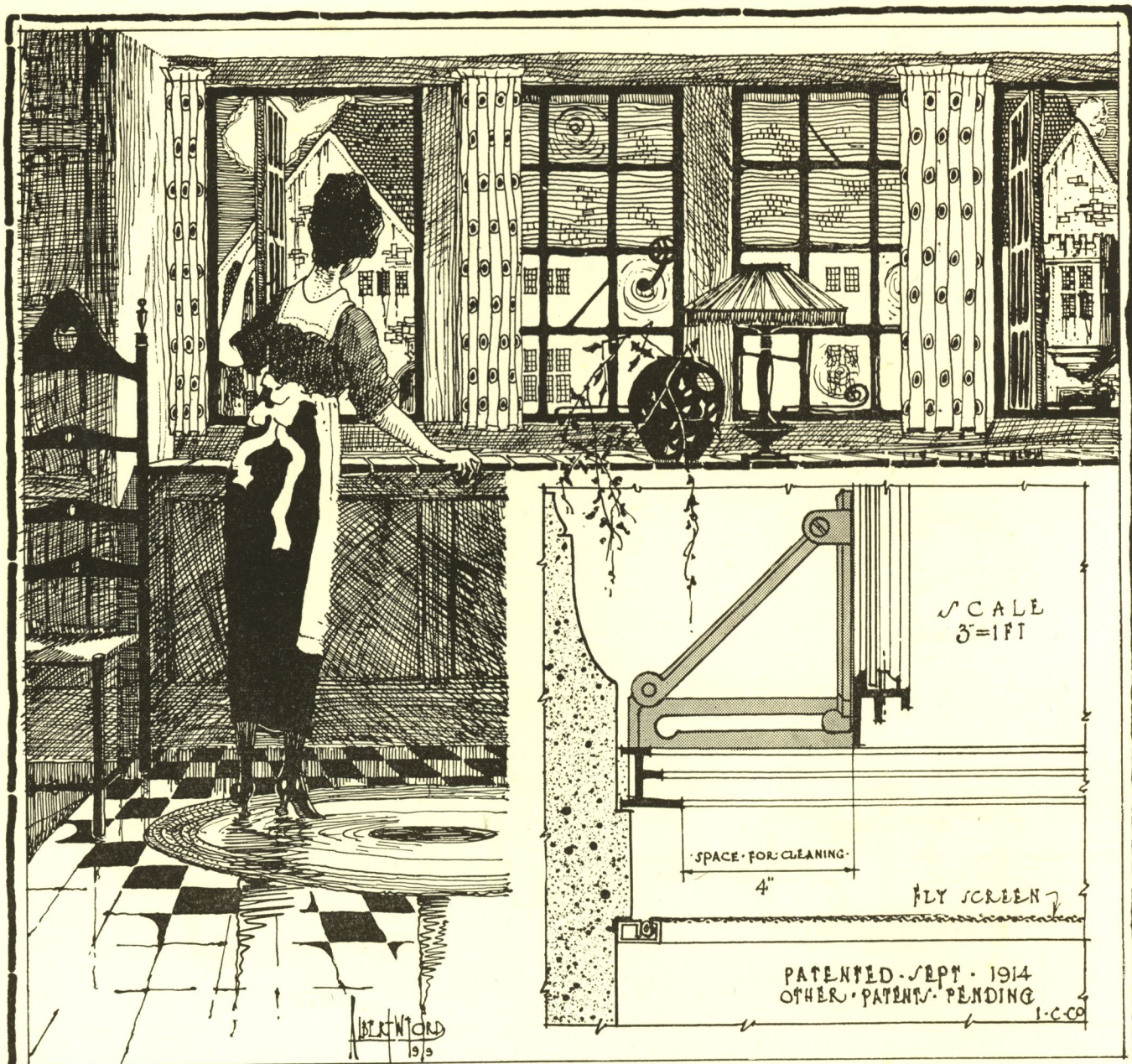
TWO POINT SECTION MEETING RAIL AND
MULLION FOR PAIRS OF CASEMENTS
ALSO FIXED SASH



NOTE: SAME TEE MULLION IS USED FOR MEDIUM THREE-POINT SECTION CASEMENTS.
SEE PAGE 23 FOR FURTHER DETAILS OF MULLIONS.



INTERNATIONAL CASEMENTS

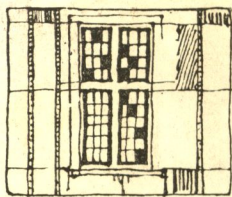


SKETCH & DETAIL OF INTERNATIONAL CASEMENT PATENT SAFETY CLEANING HINGE.

NO PROJECTION IN ROOM. NO INTERFERENCE WITH CURTAINS, SHADES, FLY SCREENS &c.
CAN BE KEPT OPEN WITHOUT NOISE OR RATTLING FOR SLIGHT OR FULL VENTILATION

I.C. Co.

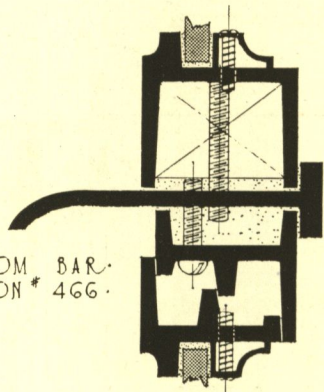
SEE PAGE 54 FOR SIMILAR HINGE SUITABLE FOR WOOD SASH.



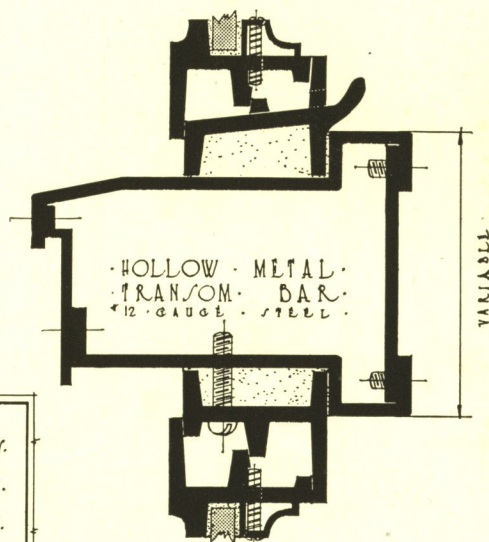
INTERNATIONAL CASEMENTS



·TRANSON ·BAR·
·SECTION # 466·

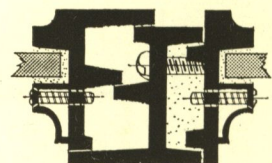


·HOLLOW ·METAL·
·TRANSON ·BAR·
·#12 ·GAUGE ·STEEL·

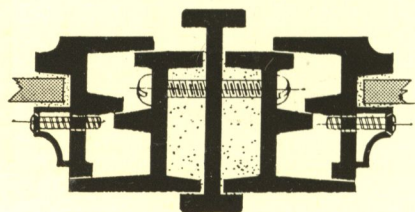


VARIABLE

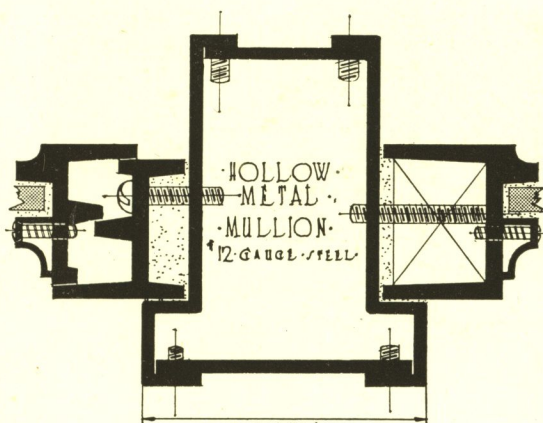
·VARYING ·SIZES·
·AND ·DESIGNS·
·OF ·HOLLOW·
·METAL ·CAN ·BE·
·FURNISHED·



MULLION ·OR· TRANSON
SECTION ·# 2008



·MULLION ·OR· TRANSON·
SECTION ·# 2009·

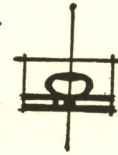


·VARIABLE·



HALF · FULL · SIZE · DETAILS ·

·MULLIONS ·AND· TRANSON BARS·

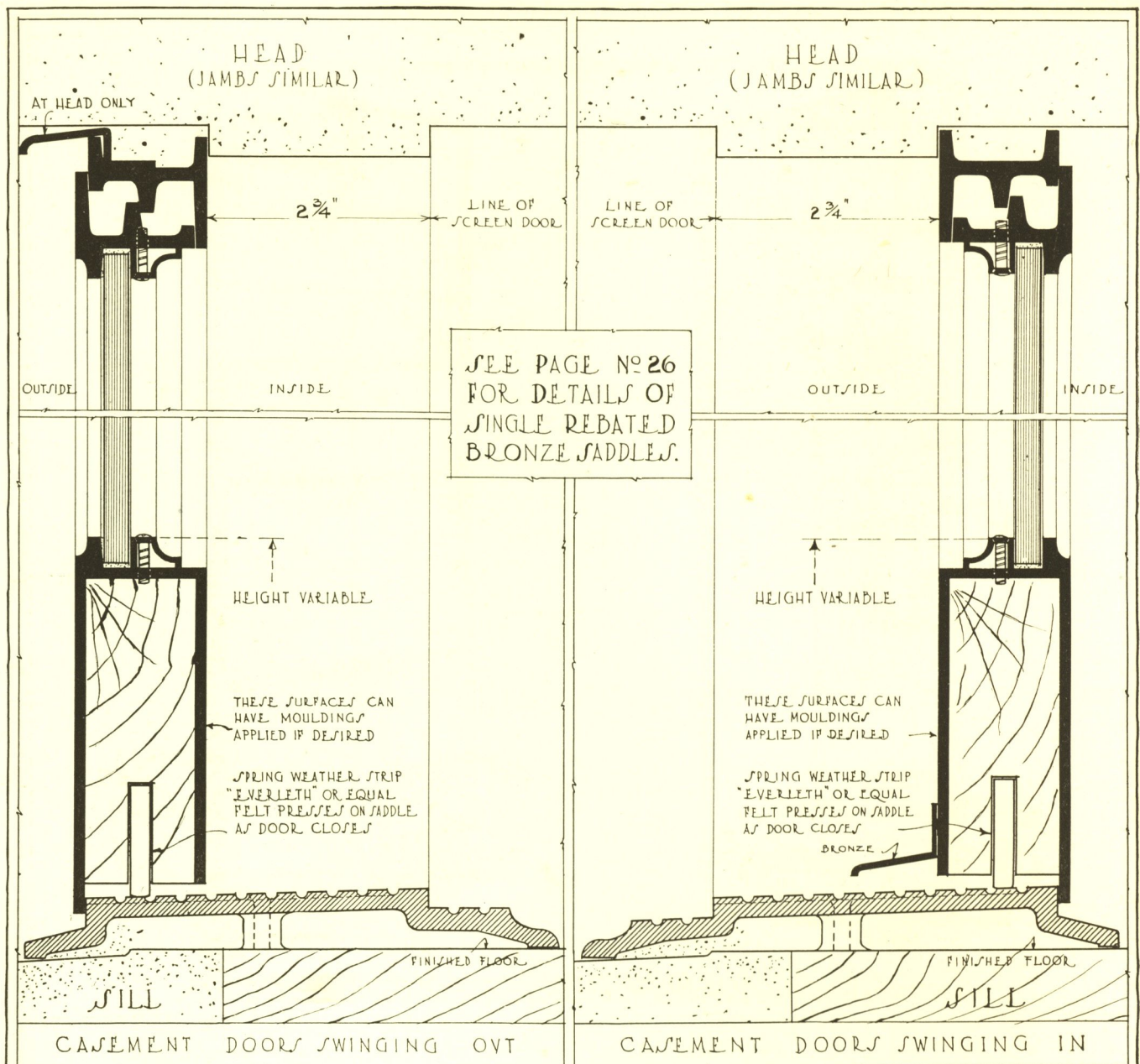
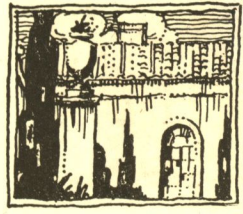


I.C.Co.

NOTE: PAGES 14 AND 21 SHOW DETAILS OF MEETING RAILS.
SEE PAGE 21 FOR MULLION USED WITH MEDIUM SECTION CASEMENTS.



INTERNATIONAL CASEMENTS

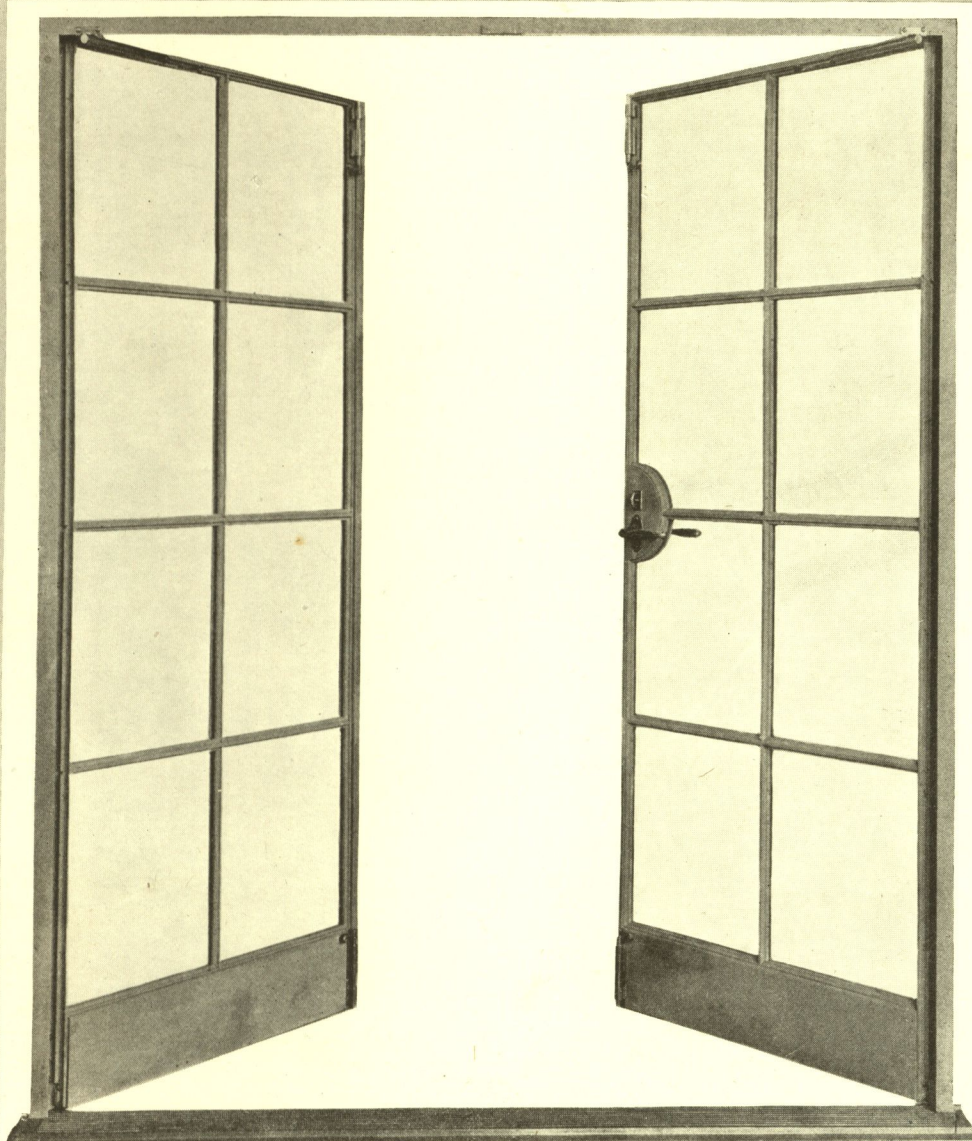
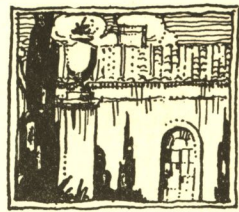


ONE HALF FULL SIZE DETAILS INTERNATIONAL CASEMENT DOORS
 SHOWING DOUBLE REBATED CAST BRONZE SADDLES OR
 THRESHOLDS WITH PATENTED SPRING WEATHER STRIPS
 AND PREPARED TO RECEIVE SCREEN DOORS.

I.C.C.



INTERNATIONAL CASEMENTS

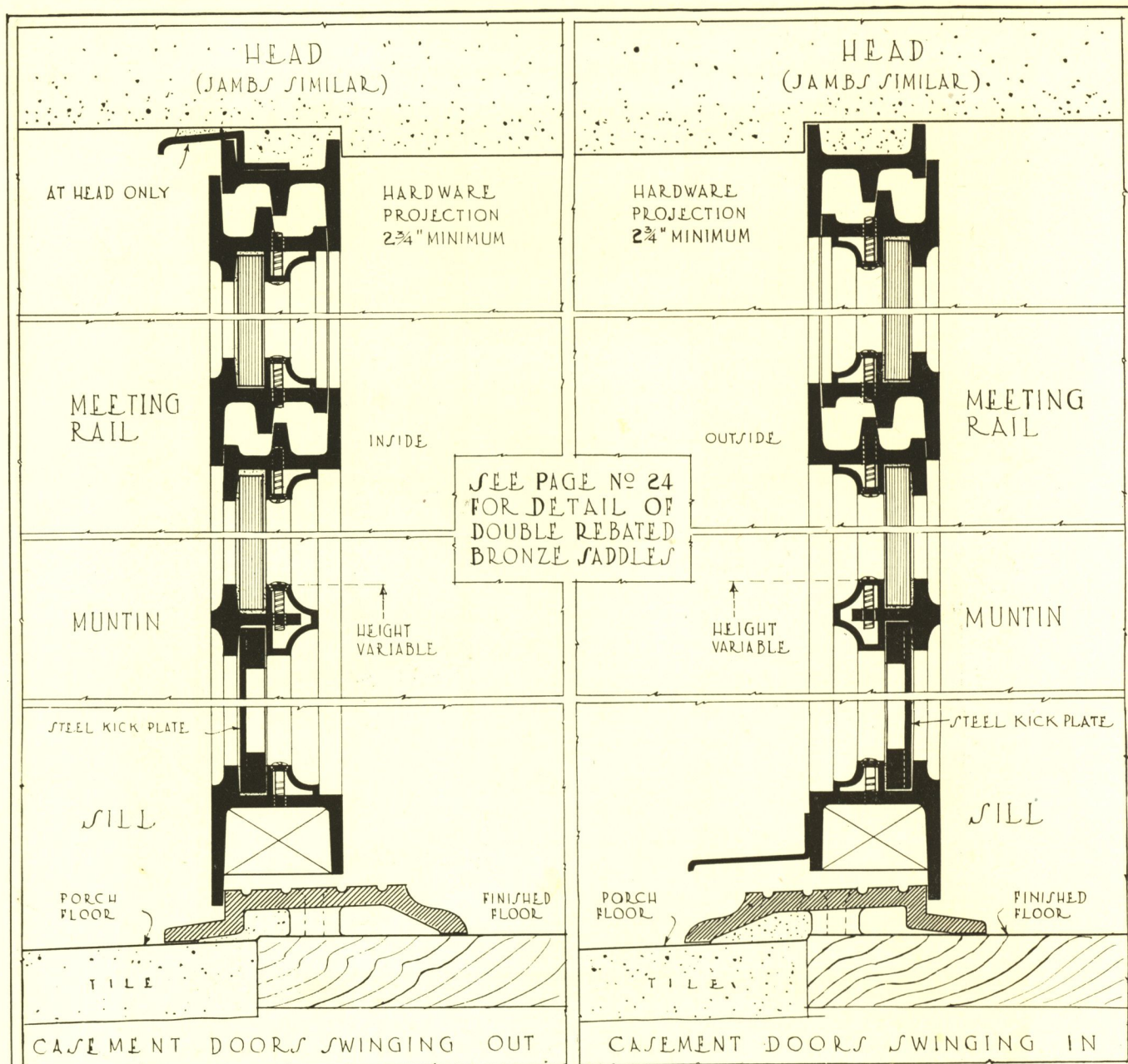


INTERNATIONAL CASEMENT DOORS WITH BRONZE SADDLE AND PATENTED WEATHERSTRIP. HUNG ON 4" SOLID BRONZE BUTTS AND FITTED WITH LATCH WITH DEAD LOCK AND ONE PAIR NO. 61 LEVER HANDLES. NO. 177 TOP AND BOTTOM BOLTS AND FRICTION ADJUSTERS ON EACH LEAF. (FOR LARGE DOORS SWINGING OUT FRICTION ADJUSTERS ARE ALSO PLACED AT THE SILL.) DUMMY LOCK BOX AND LEVER HANDLES CAN BE FURNISHED AT EXTRA COST, IF DESIRED, BUT SHOULD BE SPECIALLY MENTIONED.

SEE PAGE 15 FOR FRENCH CASEMENT WINDOWS.



INTERNATIONAL CASEMENTS



ONE HALF FULL SIZE DETAILS INTERNATIONAL CASEMENT DOORS. SHOWING SINGLE REBATED CAST BRONZE SADDLES OR THRESHOLDS WITHOUT WEATHERSTRIPS, SUITABLE FOR DOORS LEADING FROM ROOMS TO ENCLOSED PORCHES. NOT RECOMMENDED FOR EXPOSED POSITIONS UNLESS SILLS HAVE ADDITIONAL PATENTED WEATHERSTRIP AS SHOWN ON PAGE NO 24.

I. C. C.



INTERNATIONAL CASEMENTS

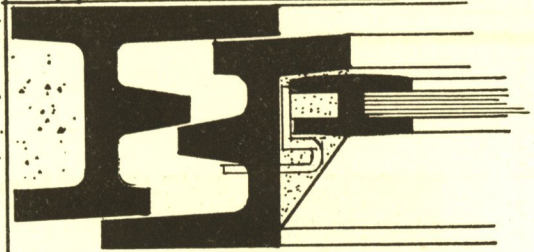
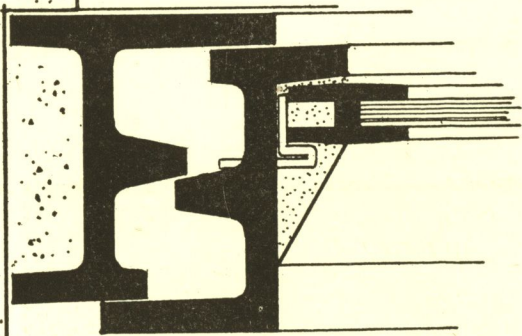


RESIDENCE, CHARLES H. SCHWEPPE, ESQ.
LAKE FOREST, ILL.

FREDERICK W. PERKINS
Architect

INTERNATIONAL CASEMENT DOORS LEADING TO SUN PORCH.

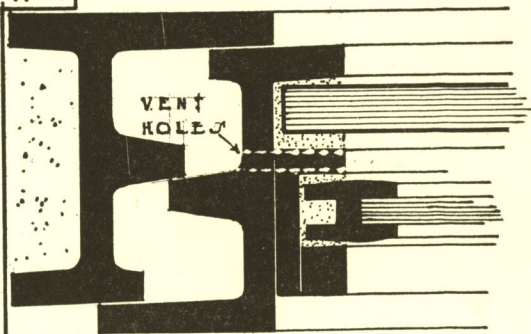
MISCELLANEOUS DETAILS



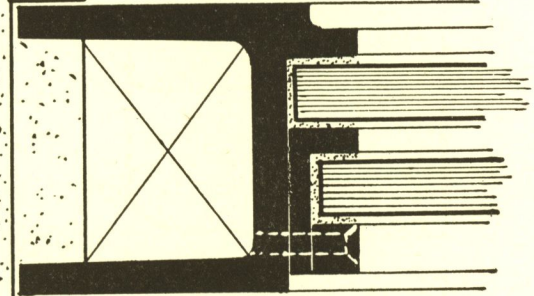
OUTSIDE.

FULL SIZE DETAILS MEDIUM & HEAVY SECTIONS SWINGING OUT PREPARED FOR GLAZING FROM OUTSIDE.

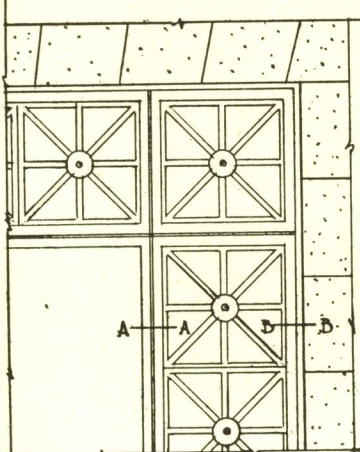
N.B. THE STANDARD DETAIL IS TO GLAZE INSIDE. SASH CAN BE MADE TO GLAZE OUTSIDE WITHOUT EXTRA COST.



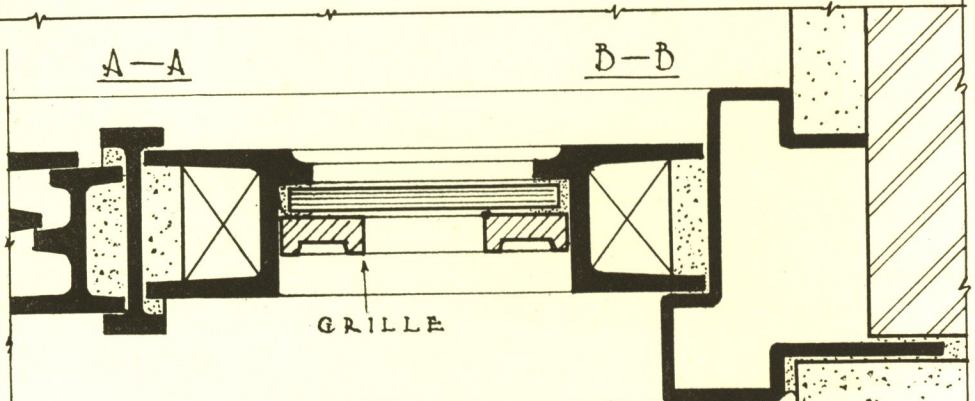
VENT HOLE



FULL SIZE DETAILS OF DOUBLE GLAZING IN CASEMENTS & FIXED SASH.



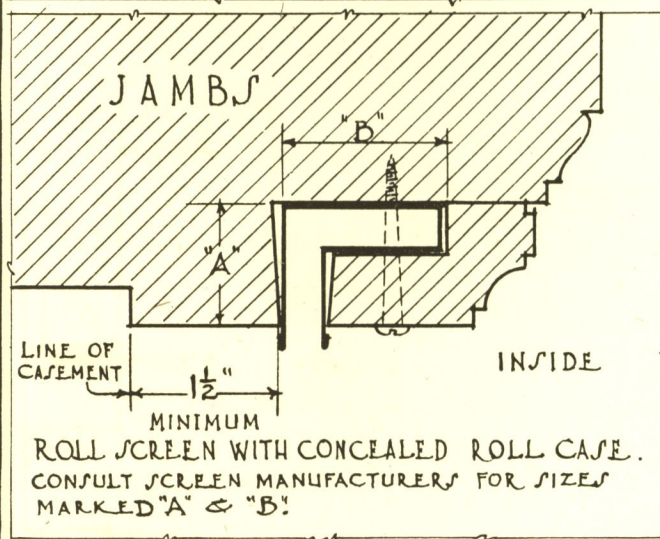
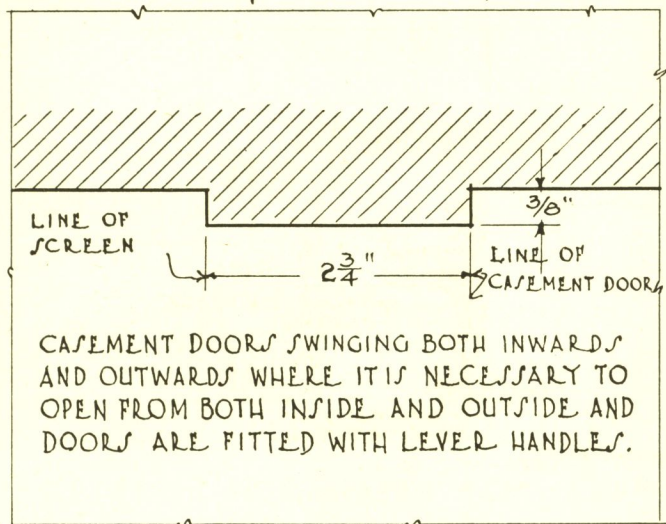
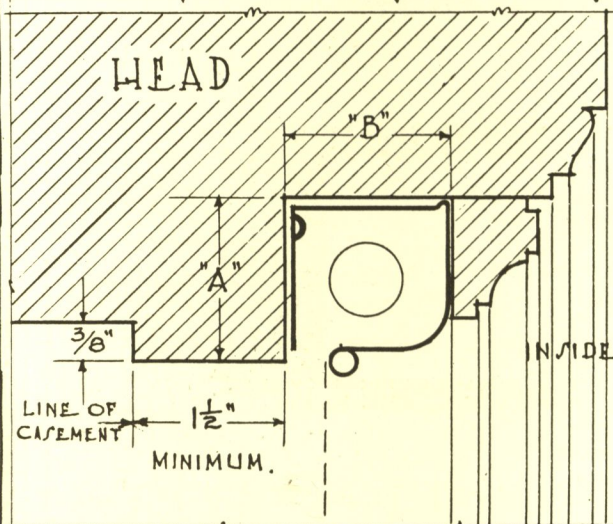
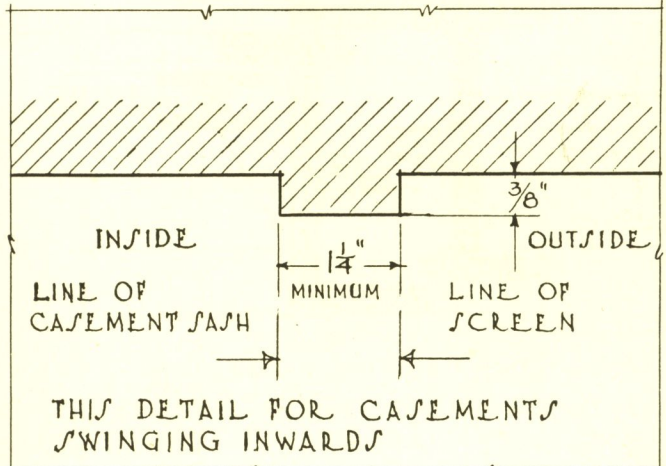
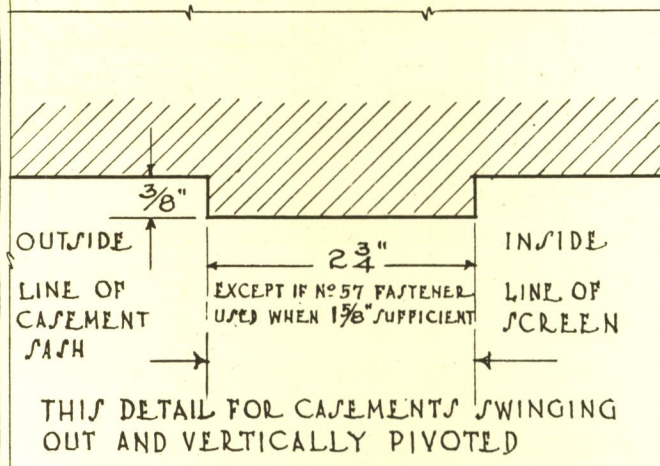
ELEVATION
NO SCALE



ONE HALF FULL SIZE DETAILS SHOWING APPLICATION OF CAST METAL GRILLES AGAINST GLASS.

I.C.CO.

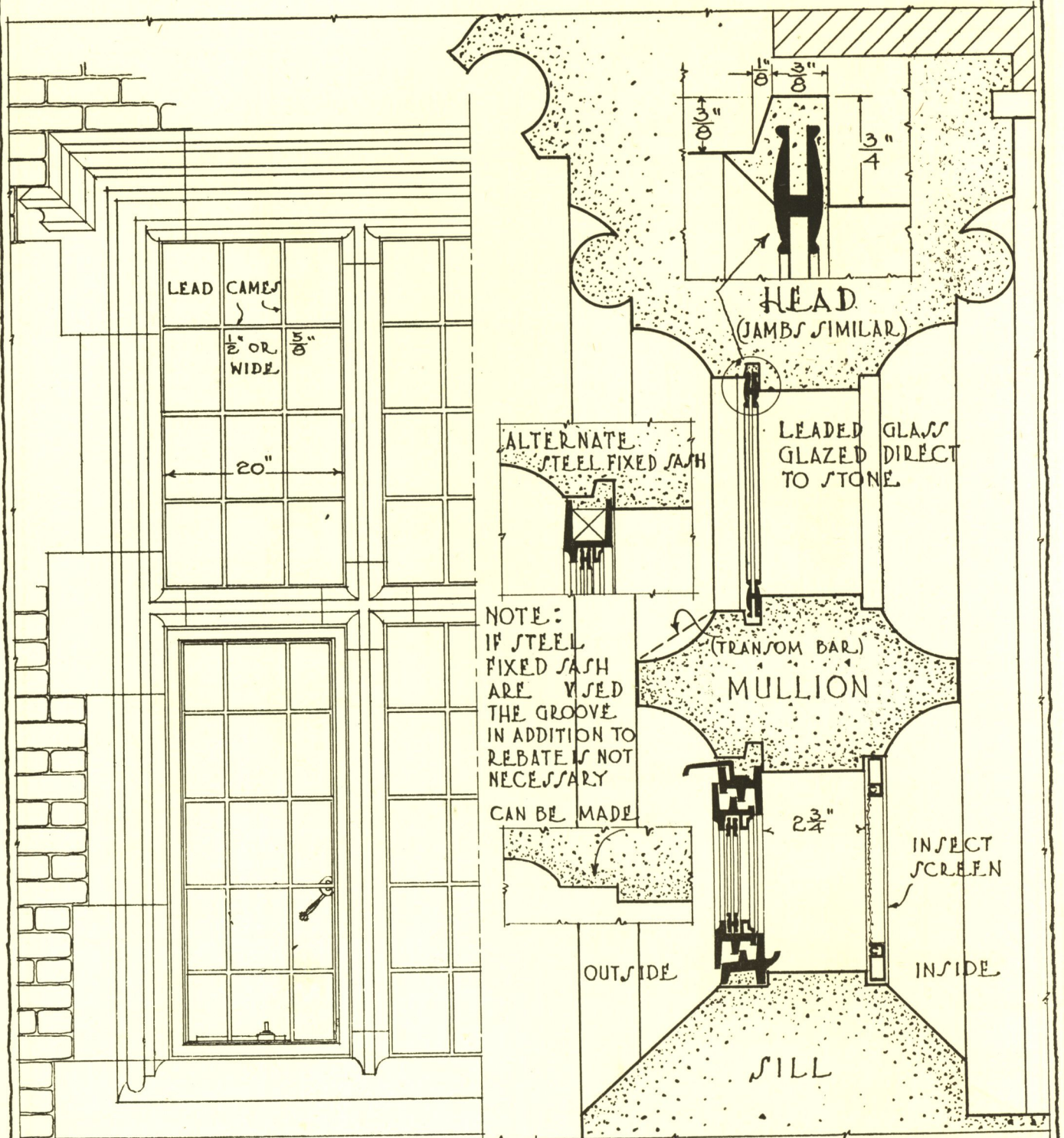
: HALF FULL SIZE DETAILS SHOWING RELATION :
: OF INSECT SCREENS TO CASEMENT SASH :



THESE DETAILS
SHOW THE MINIMUM SPACE
BETWEEN SCREENS AND SASH
IF LESS SPACE IS DESIRED
IT MAY BE OBTAINED BY USING
SPECIAL HARDWARE AT SLIGHT
EXTRA COST.

I. C. C. ©

REBATED CUT STONE DETAILS. FOR CASEMENTS SWINGING OUTWARDS. STONE TRIM INSIDE.



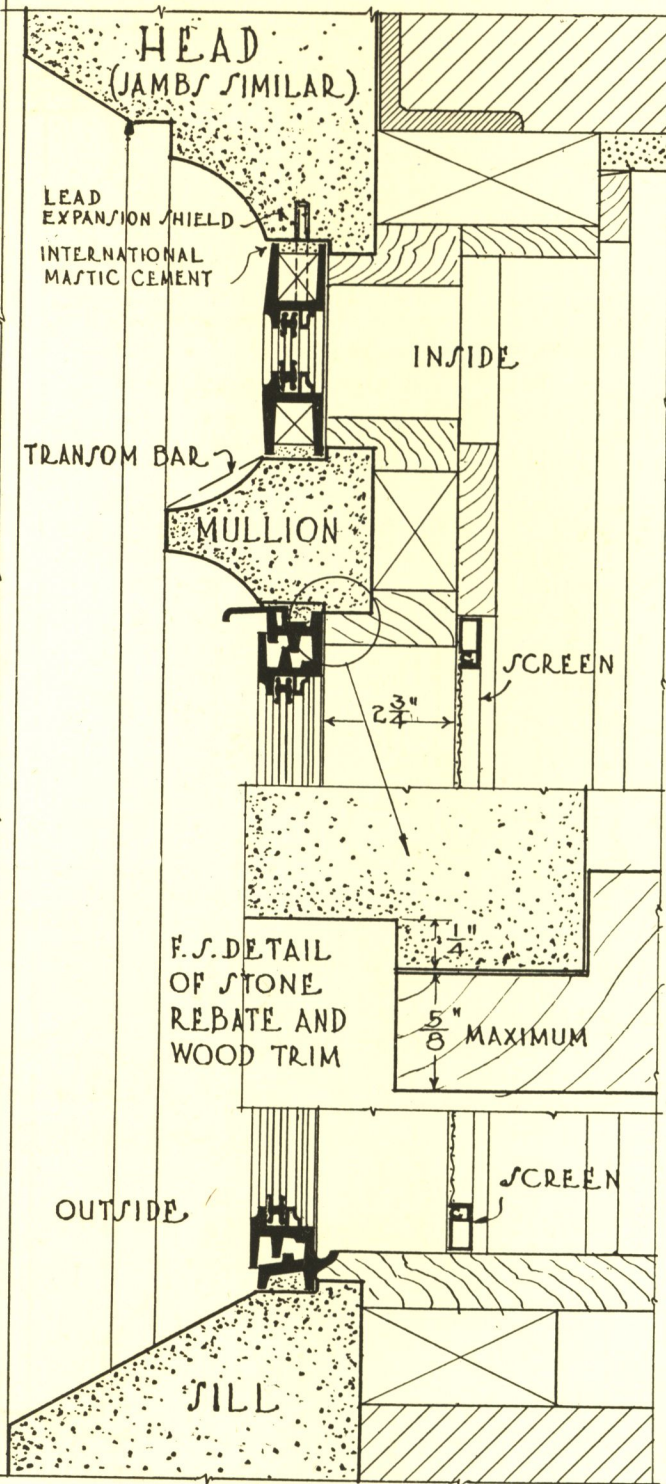
ELEVATION SCALE $\frac{3}{4}$ " = ONE FOOT.

SCALE 3" = ONE FOOT.

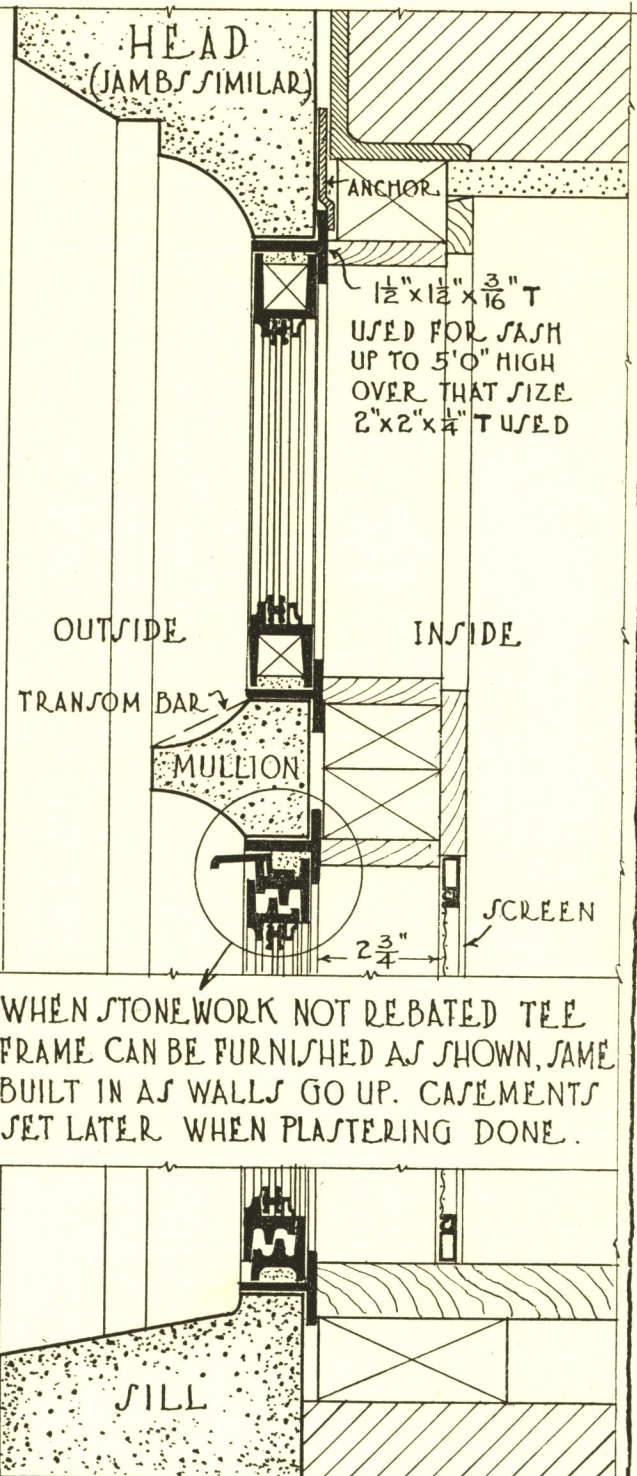
I.C.C.

FULL SIZE DETAILS FURNISHED ON REQUEST.

CUT STONE DETAILS. FOR CASEMENTS SWINGING OUT. WOOD TRIM INSIDE.



SCALE 3" = ONE FOOT



WHEN STONEMWORK NOT REBATED TEE FRAME CAN BE FURNISHED AS SHOWN, SAME BUILT IN AS WALLS GO UP. CASEMENTS SET LATER WHEN PLASTERING DONE.

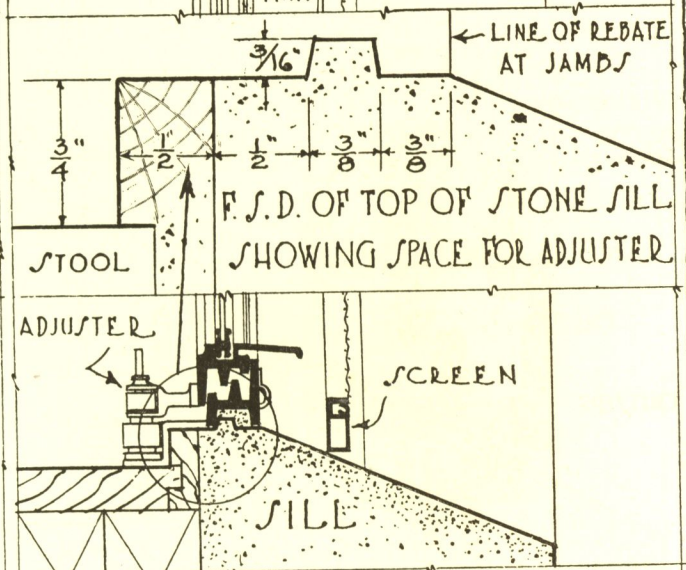
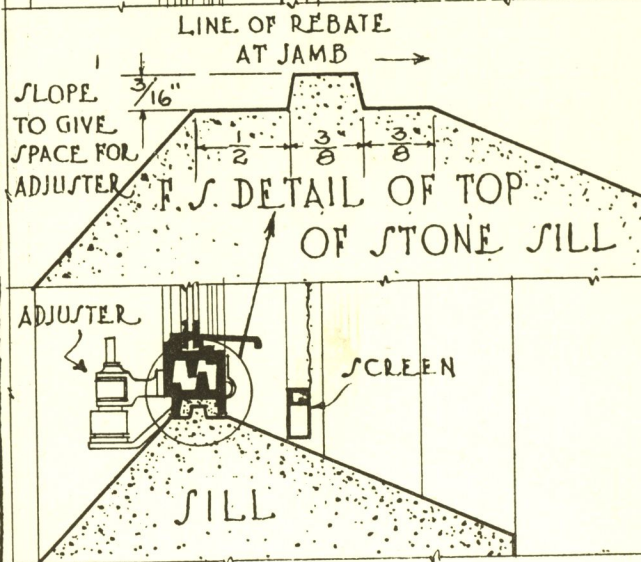
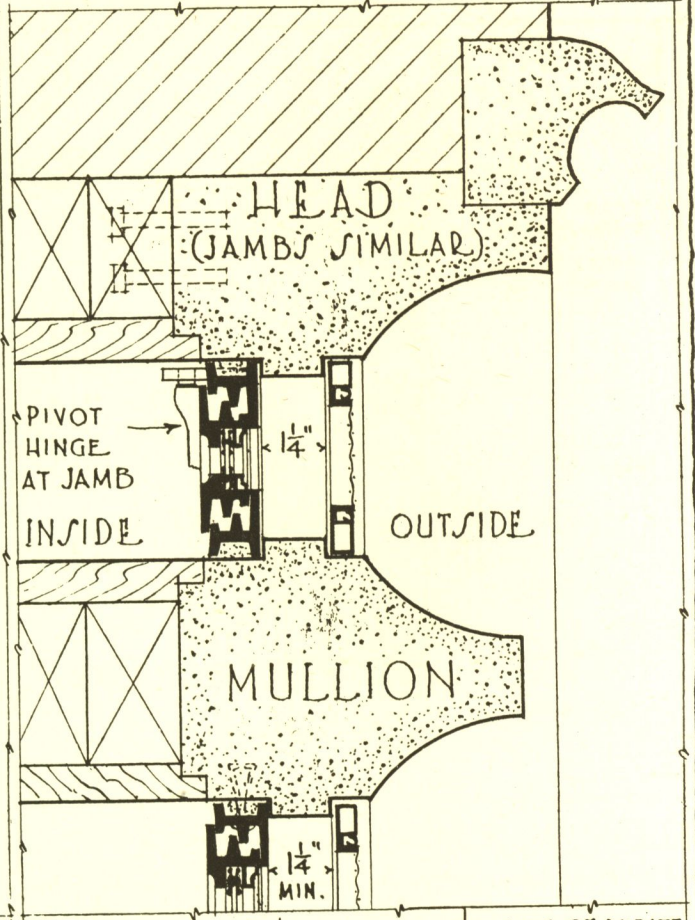
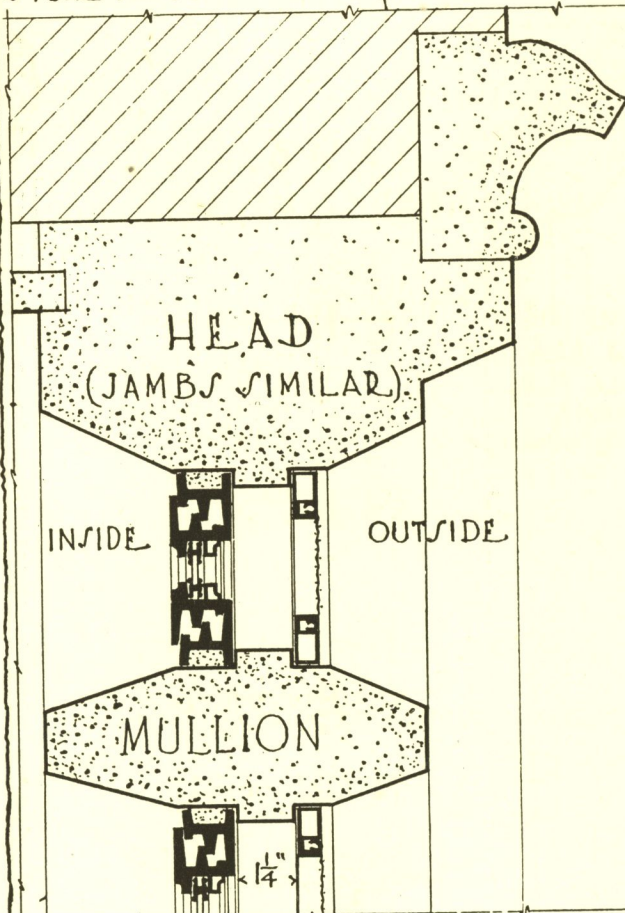
SCALE 3" = ONE FOOT.

I.C.C.

REBATED CUT STONE DETAILS. FOR CASEMENTS SWINGING INWARDS.

STONE TRIM BOTH INSIDE & OUTSIDE.

STONE OUTSIDE WOOD TRIM INSIDE.



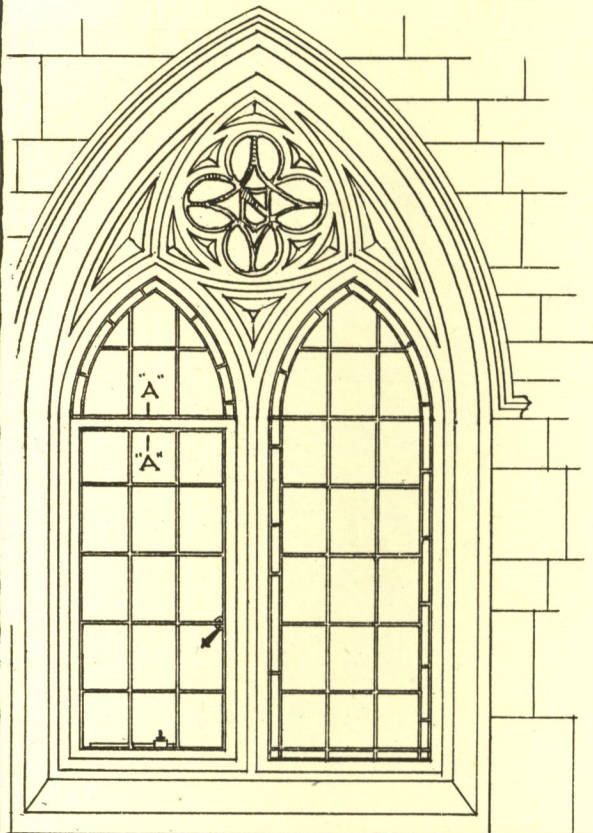
SCALE 3" = ONE FOOT

SCALE 3" = ONE FOOT.

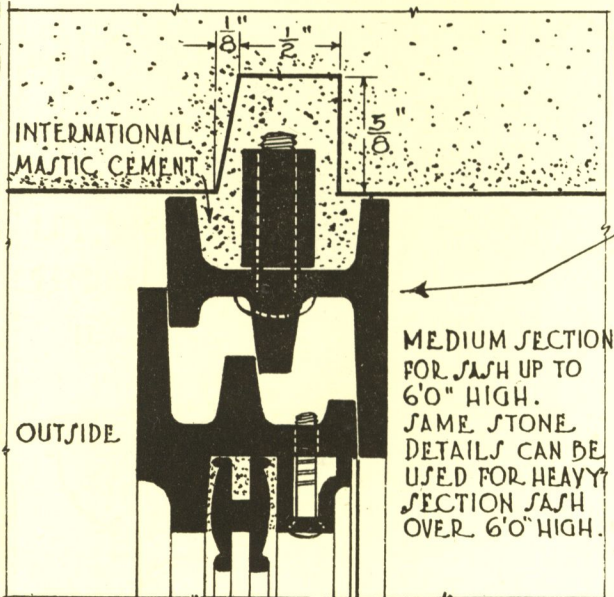
I. C. C.

GROOVED STONE DETAILS

SUITABLE FOR BOTH INWARD AND OUTWARD SWINGING CASEMENTS.

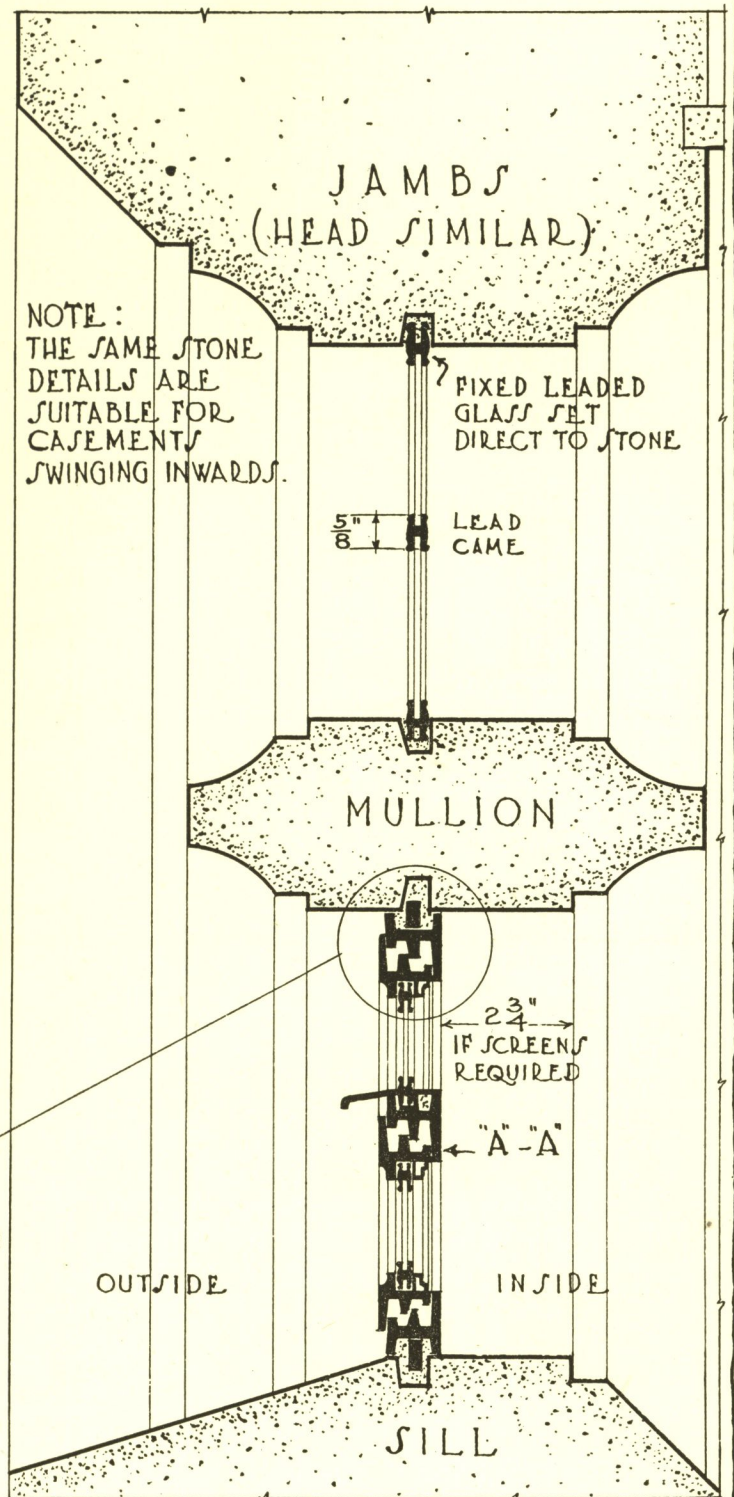


ELEVATION SCALE $\frac{1}{2}'' = \text{ONE FOOT}$



FULL SIZE DETAIL

MEDIUM SECTION
FOR SASH UP TO
6'0" HIGH.
SAME STONE
DETAILS CAN BE
USED FOR HEAVY
SECTION SASH
OVER 6'0" HIGH.



SCALE 3" = ONE FOOT

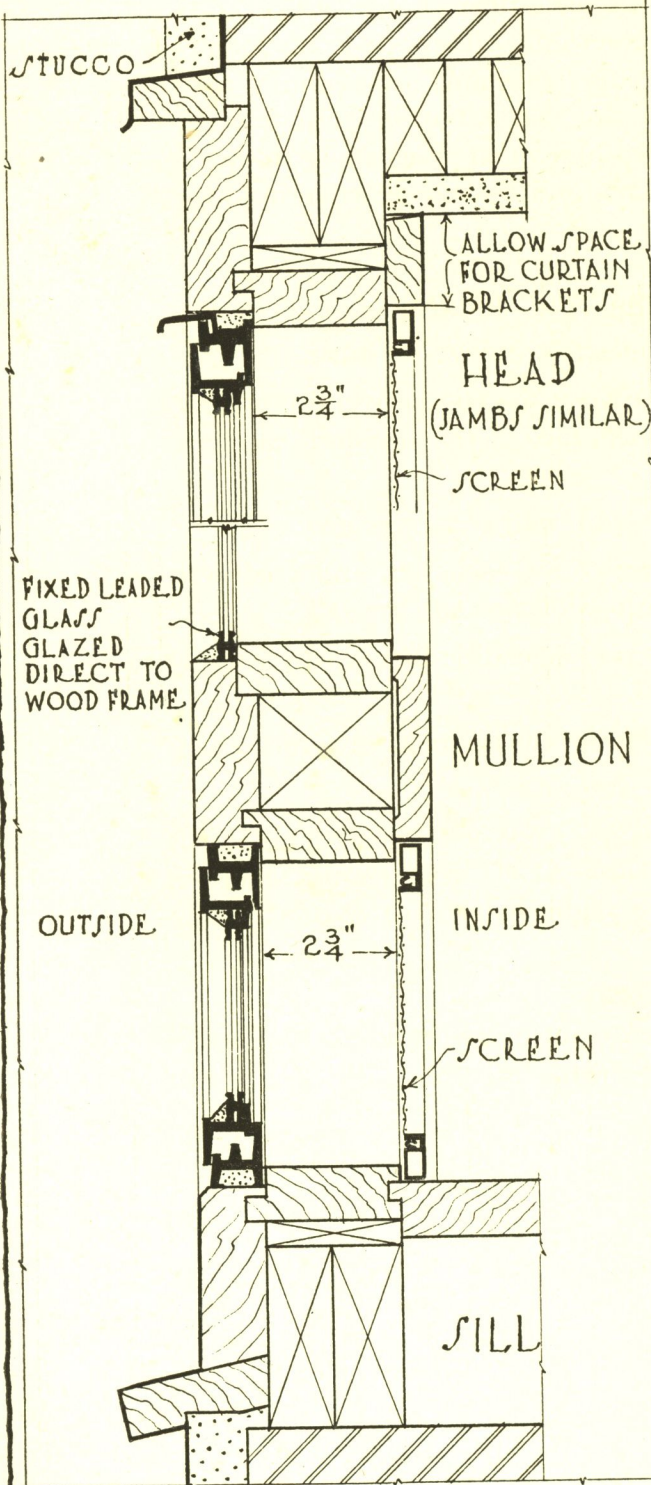
I.C.C.

FULL SIZE DETAILS FURNISHED ON REQUEST.

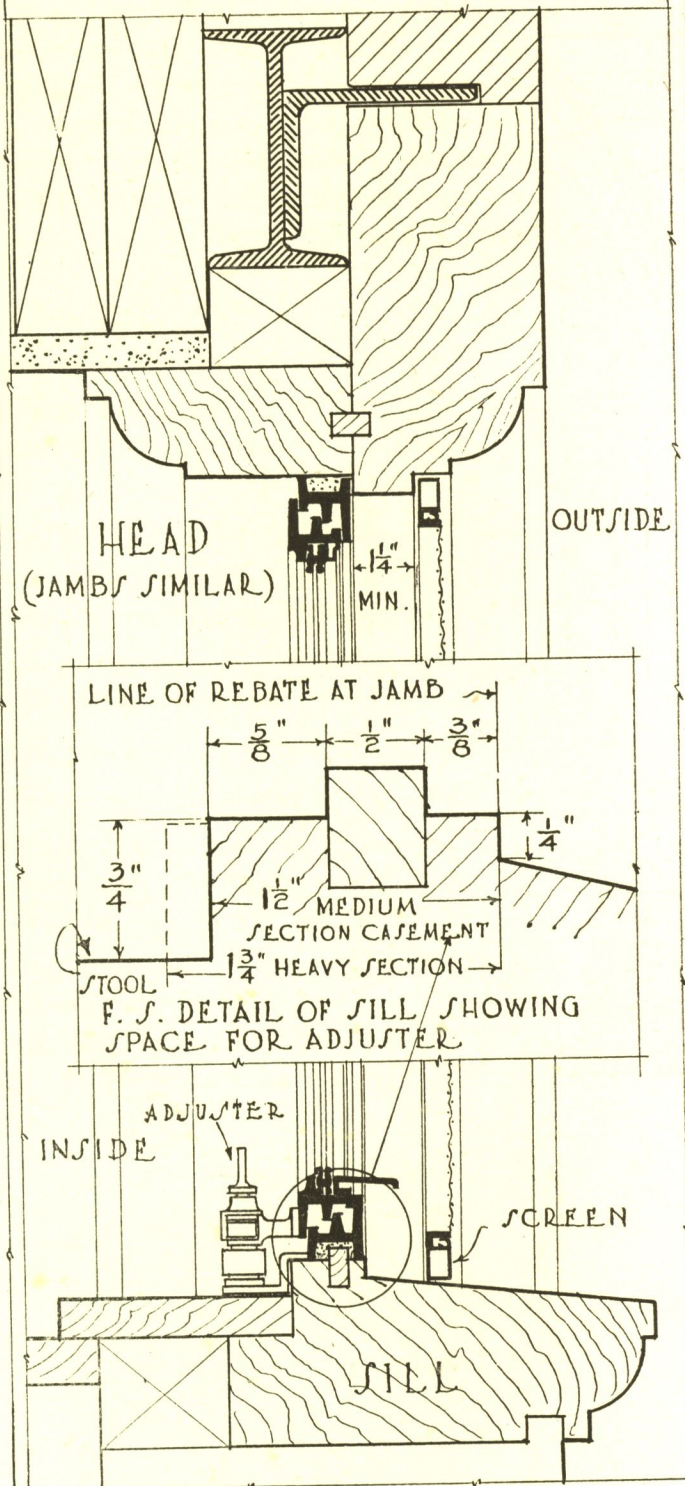
WOOD FRAME DETAILS.

CASEMENT SWINGING OUT.

CASEMENT SWINGING IN.



SCALE 3" = ONE FOOT.



SCALE 3" = ONE FOOT.

I.C.C.

INTERNATIONAL "BILTIN" FRAMES FOR MASONRY REVEALS

In the foregoing pages the casements have been shown setting to cut stone, rebated to suit the casement sections. These can be followed where windows have stone mullions and transoms, particularly where the stonework is carried through to the inside but in large masonry openings special preparation is required and in the pages next following we have shown details of both casements and fly screens covering every kind of masonry detail.

INTERNATIONAL "BILTIN" FRAMES

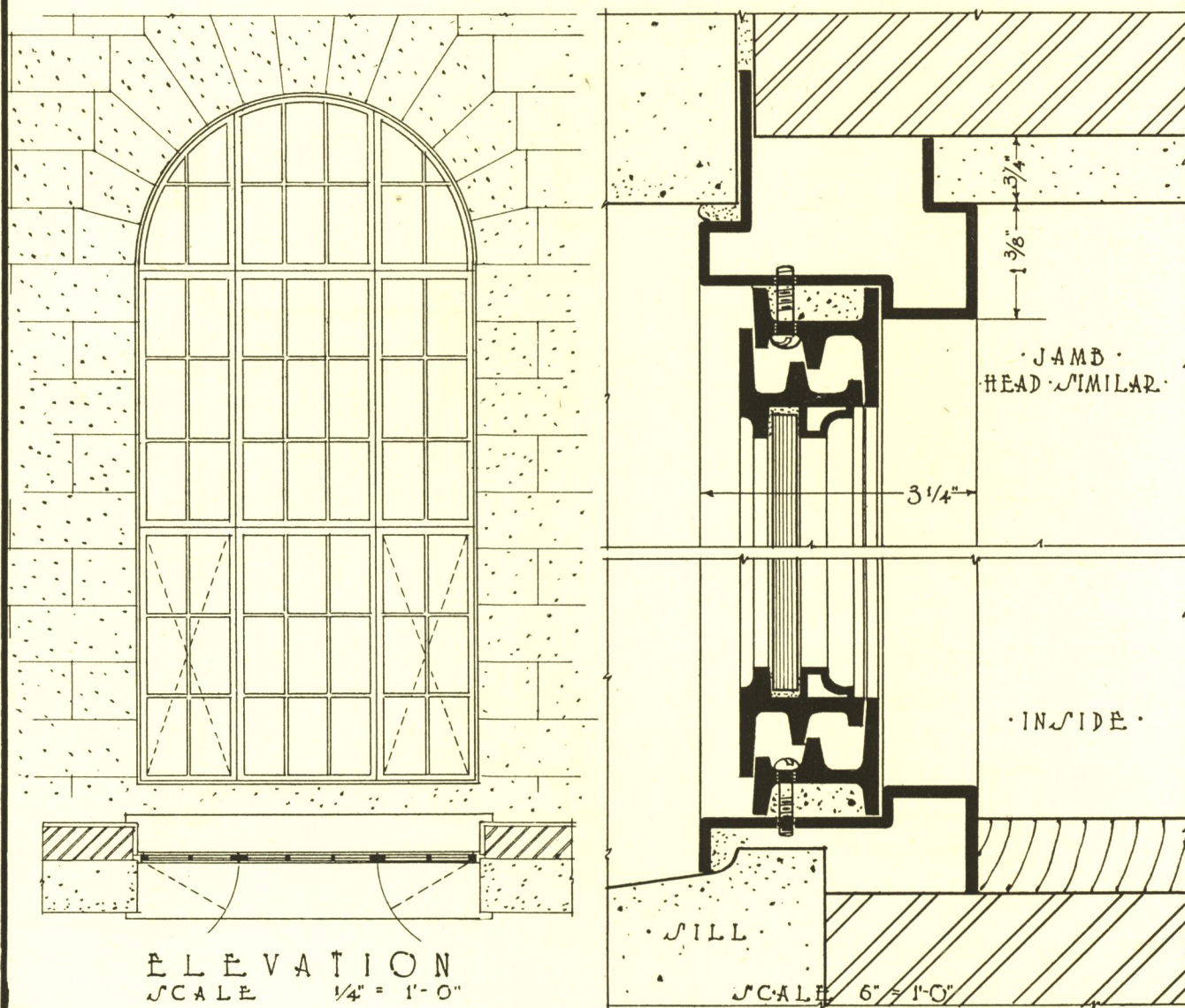
These are a necessity for large composite windows because

- 1 They preserve a relation in scale between the windows and the heavy masonry which the rather light appearance of the standard casement section does not.
- 2 They give thoroughly weathertight and rigid construction.
- 3 They are pressed from sheets specially for each job, and are therefore adaptable to suit varied conditions in masonry reveals.
- 4 They are built in as masonry proceeds and can be furnished promptly so that other trades are not delayed.
- 5 The plastering can be completed before the casements are set.
- 6 They can be adapted to receive fly screens.
- 7 They are made from heavy material so they will last as long as the casements. Architects can order these "BILTIN" frames made of No. 12 gauge Steel; or at a very slight extra cost, No. 11 gauge Ingot Iron.

WARNING

Casements should not be set in place until the building is clear of the rougher trades, particularly the plastering.

MASONRY REVEALS
WITH TYPE "A" "BILTIN" SUB-FRAMES
FOR CASEMENTS SWINGING OUTWARDS

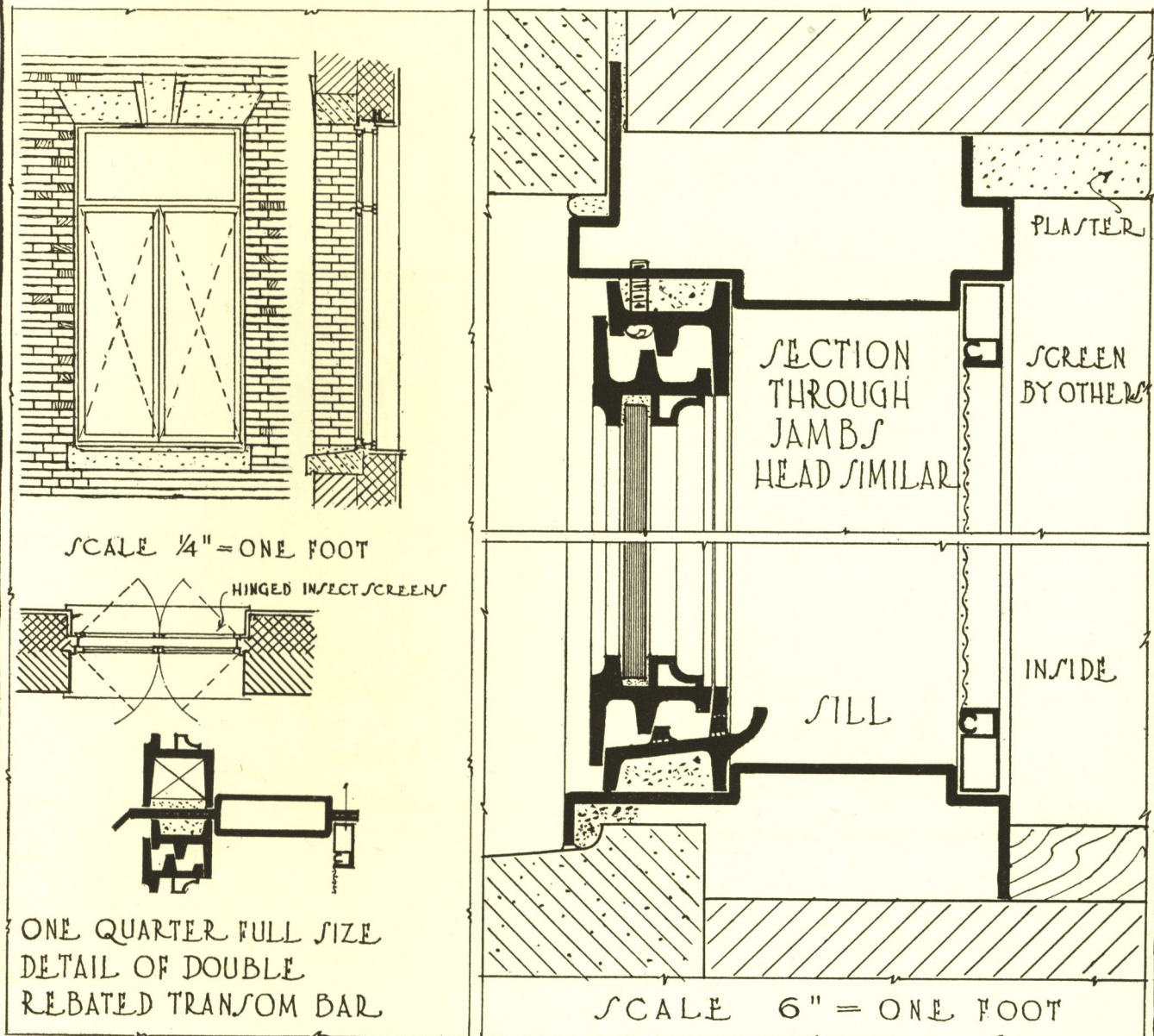


NOTE:- INTERNATIONAL "BILTIN" FRAMES BEING
PRESSED FROM HEAVY GAUGE SHEET STEEL
THE SHAPES CAN READILY BE ADAPTED TO
SUIT VARYING MASONRY DETAILS.
"BILTIN" FRAMES ARE USUALLY MADE OF
NO 12 GAUGE STEEL OR IF DESIRED AT SLIGHT
EXTRA COST CAN BE FURNISHED IN 11 GAUGE INGOT IRON.

ICC.D.

FULL SIZE DETAILS FURNISHED ON REQUEST.

MASONRY REVEALS WITH TYPE "C" "BILTIN" SUBFRAMES. FOR CASEMENTS SWINGING OUTWARDS AND PREPARED TO RECEIVE SCREENS

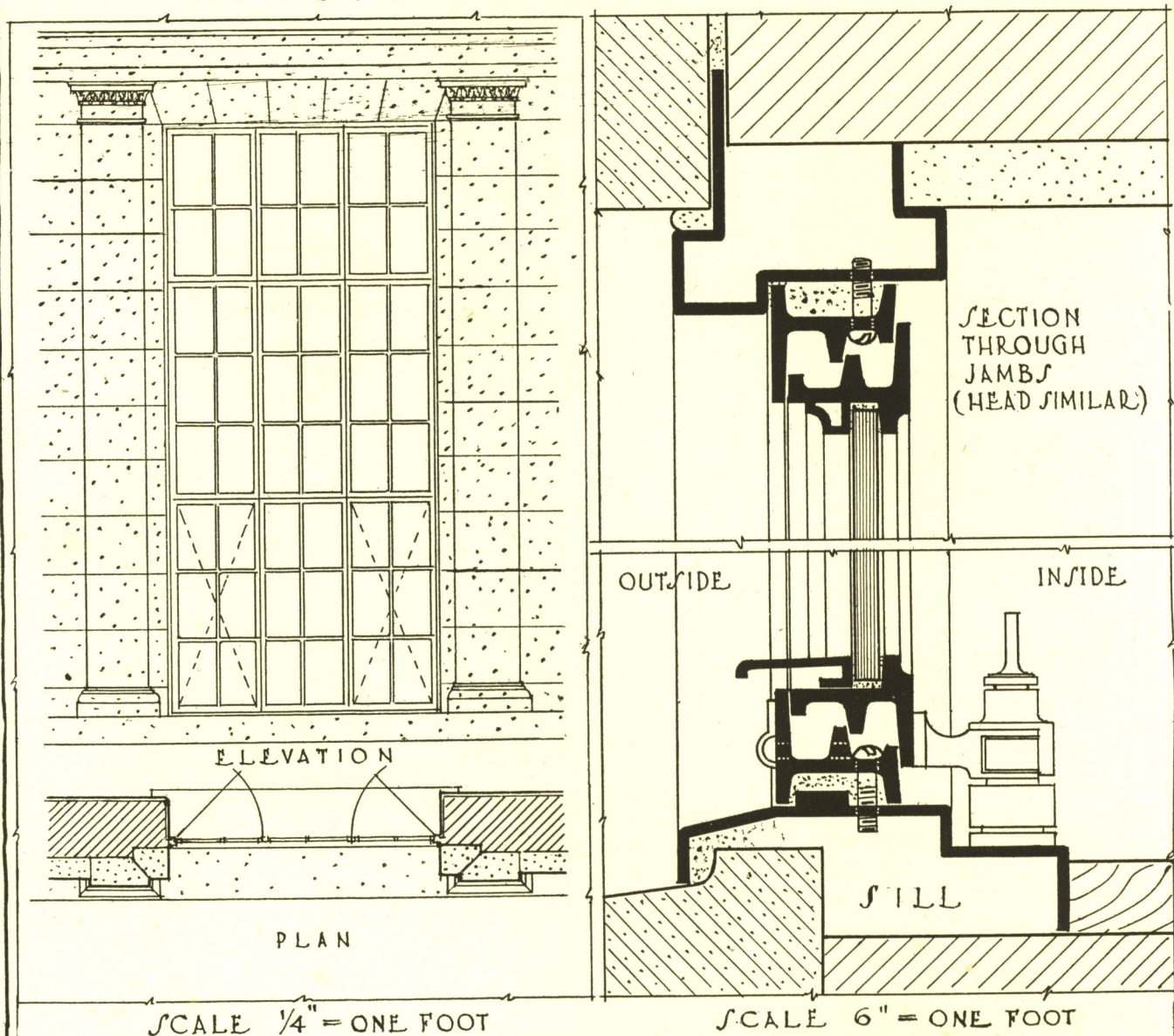


NOTE: INTERNATIONAL "BILTIN" FRAMES.
MAKE RIGID AND WEATHERTIGHT CONSTRUCTION, ARE READILY
ADAPTED TO RECEIVE SCREENS AS ILLUSTRATED ABOVE
AND MOST IMPORTANT OF ALL THEY ALLOW CASEMENTS
AND HARDWARE TO BE SET AFTER THE PLASTERING IS COMPLETED.
NOTE ALSO THE OFFSET ON INSIDE FORMING PLASTER KEY.

FULL SIZE DETAILS FURNISHED ON REQUEST.

I.C.C.

MASONRY REVEALS. WITH TYPE "A" "BILTIN" SUB FRAMES FOR CASEMENTS SWINGING INWARDS.

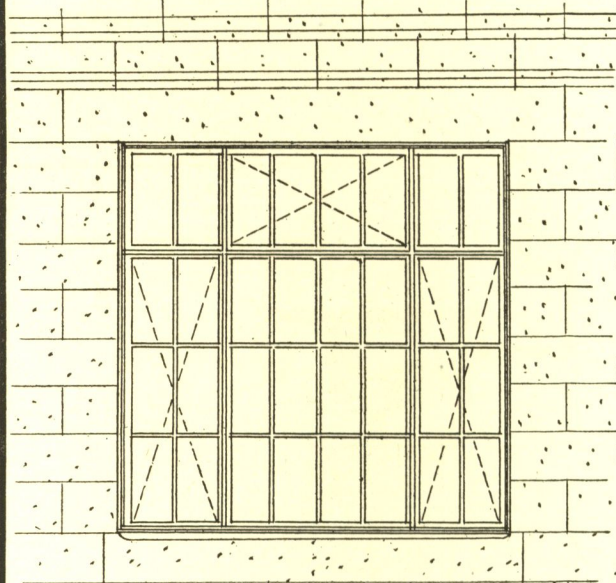


NOTE : INTERNATIONAL "BILTIN" FRAMES FOR LARGE COMPOSITE WINDOWS ARE A NECESSITY TO PRESERVE A RELATION IN SCALE BETWEEN THE WINDOWS AND THE HEAVY MASONRY, WHICH IS IMPOSSIBLE WITH THE STANDARD CASEMENT SECTIONS. THESE FRAMES ARE DELIVERED PROMPTLY SO THEY CAN BE BUILT IN AS WALLS GO UP.

FULL SIZE DETAILS FURNISHED ON REQUEST.

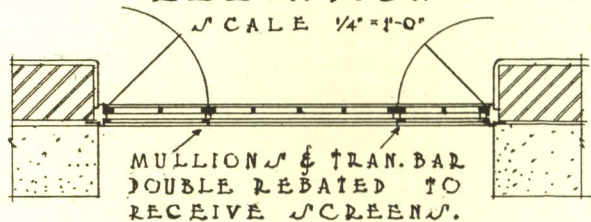
I.C.C.

MASONRY REVEALS WITH TYPE "C" "BILTIN" SUB-FRAMES FOR CASEMENTS SWINGING INWARDS AND PREPARED TO RECEIVE SCREENS



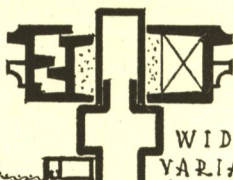
ELEVATION

SCALE 1/4" = 1'-0"

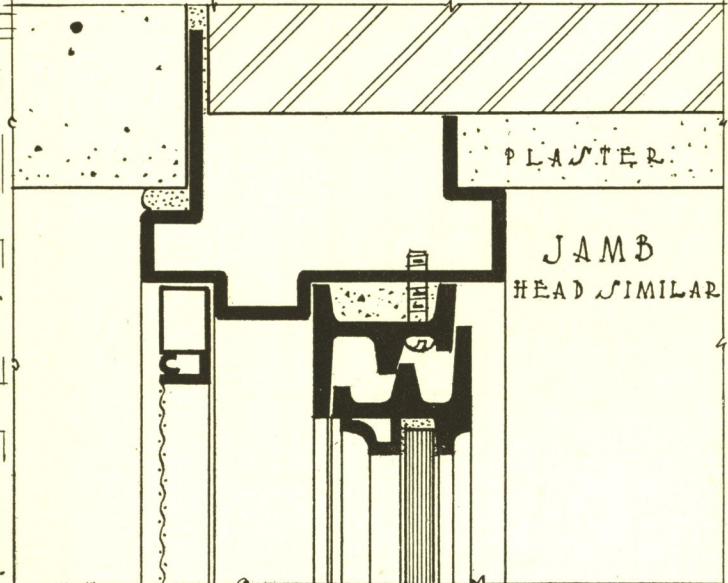


MULLIONS & TRAN. BAR
DOUBLE REBATED TO
RECEIVE SCREENS.

ONE QUARTER
FULL SIZE PLAN
OF MULLION
MADE OF SAME
GUAGE METAL
AS BILTIN FRAME

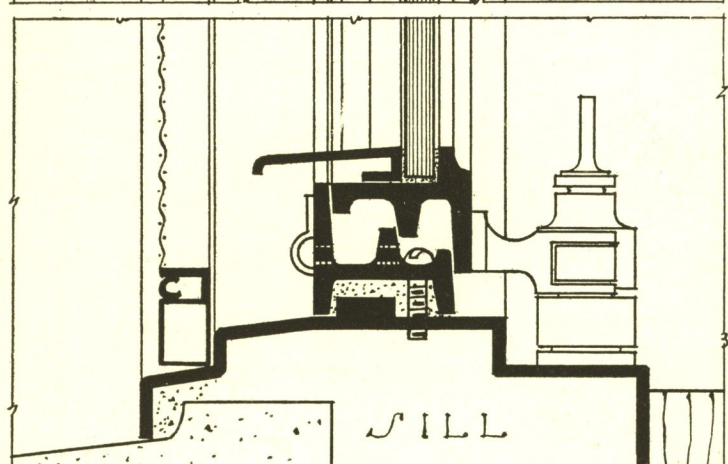


WIDTH
VARIABLE



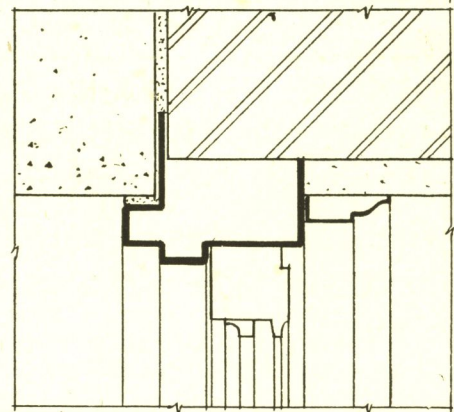
PLASTER

JAMB
HEAD SIMILAR



SILL

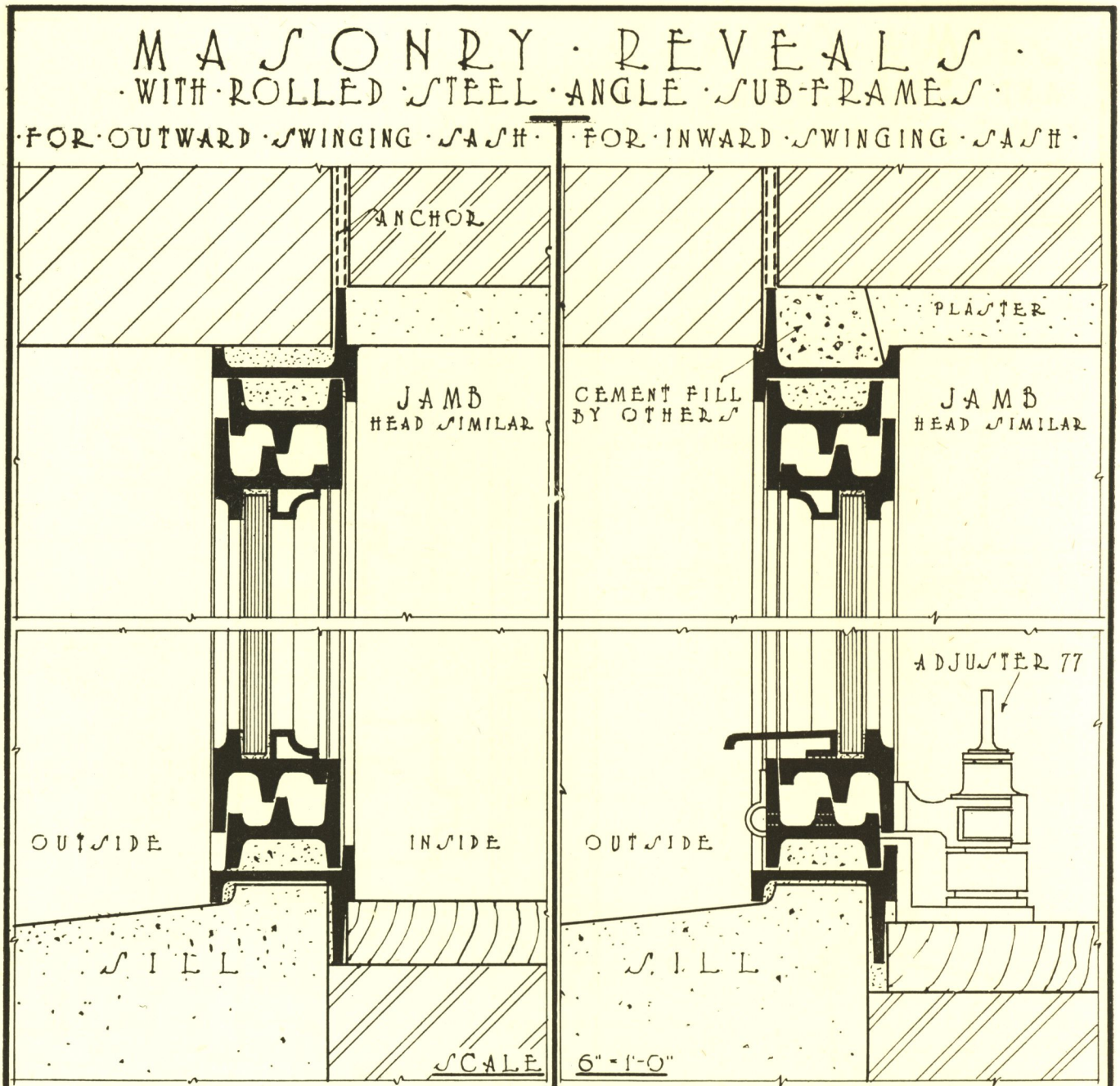
SCALE 6" = 1'-0"



NOTE: IF REQUIRED THE INSIDE
FACE OF ALL INTERNATIONAL
"BILTIN" FRAMES CAN BE MADE
PLAIN TO RECEIVE WOOD OR
MARBLE TRIM, OR STEEL
SCRIBE MOULD CAN BE
FURNISHED AS SHOWN BY
SKETCH OPPOSITE.

I.C. Co.

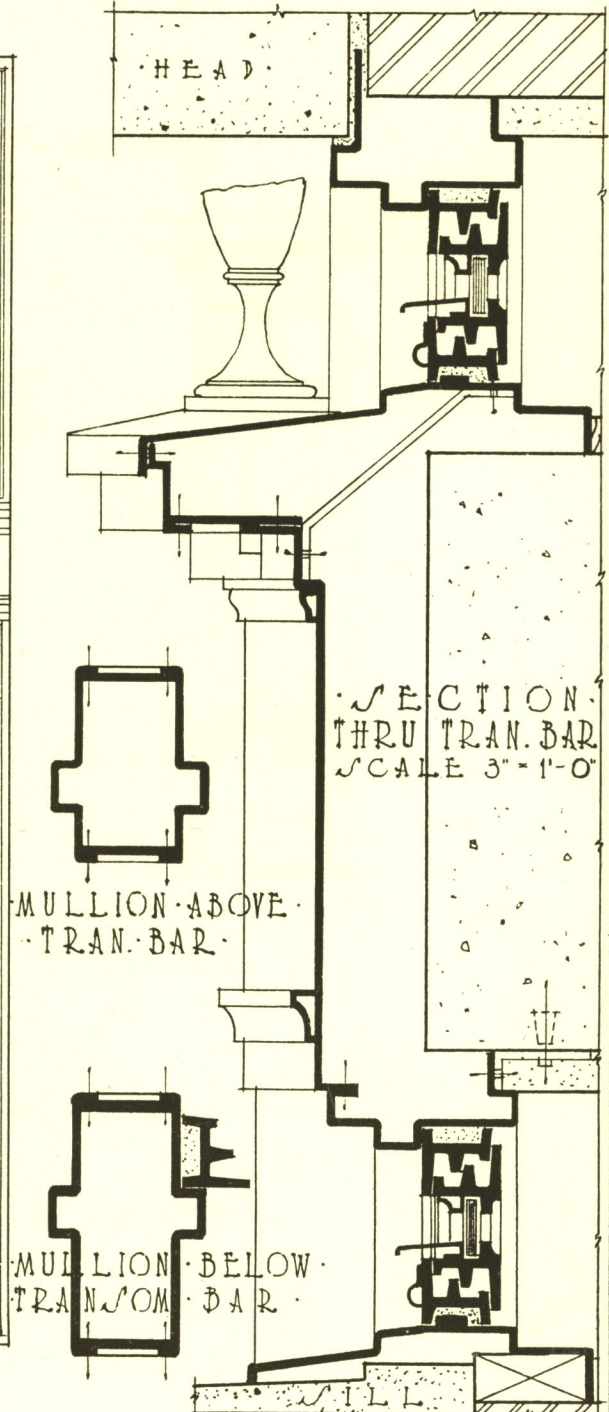
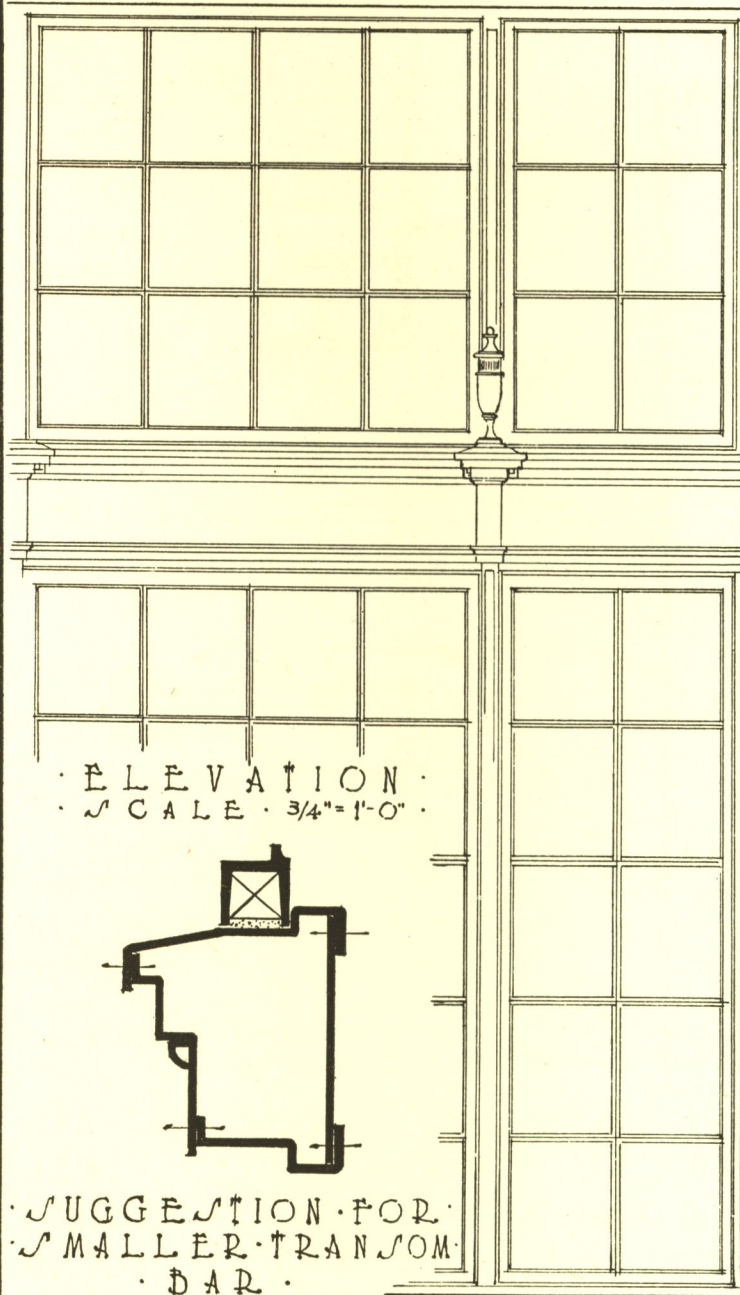
FULL SIZE DETAILS FURNISHED ON REQUEST.



NOTE: WHERE LIGHT SASH LINES ARE SATISFACTORY AND WHERE COST IS AN IMPORTANT FACTOR THE ROLLED STEEL ANGLE SUB-FRAME SHOWN ABOVE CAN BE USED INSTEAD OF THE BILTIN FRAMES ILLUSTRATED IN PRECEDING PAGES. - THIS IS A DISTINCT IMPROVEMENT OVER THE ANGLE FRAME RIVETTED TO THE CASEMENT AS HERETOFORE USED, BECAUSE THIS NEW FRAME HAS A PLASTER KEY ON INSIDE AND IS SO DESIGNED THAT CASEMENT SASH WITH HARDWARE CAN BE SET AFTER THE PLASTERING IS COMPLETED.

ICCO.

SUGGESTIONS FOR ORNAMENTAL MULLIONS AND TRANSOM BARS TO BE USED WITH INTERNATIONAL 'BILTIN' FRAMES.

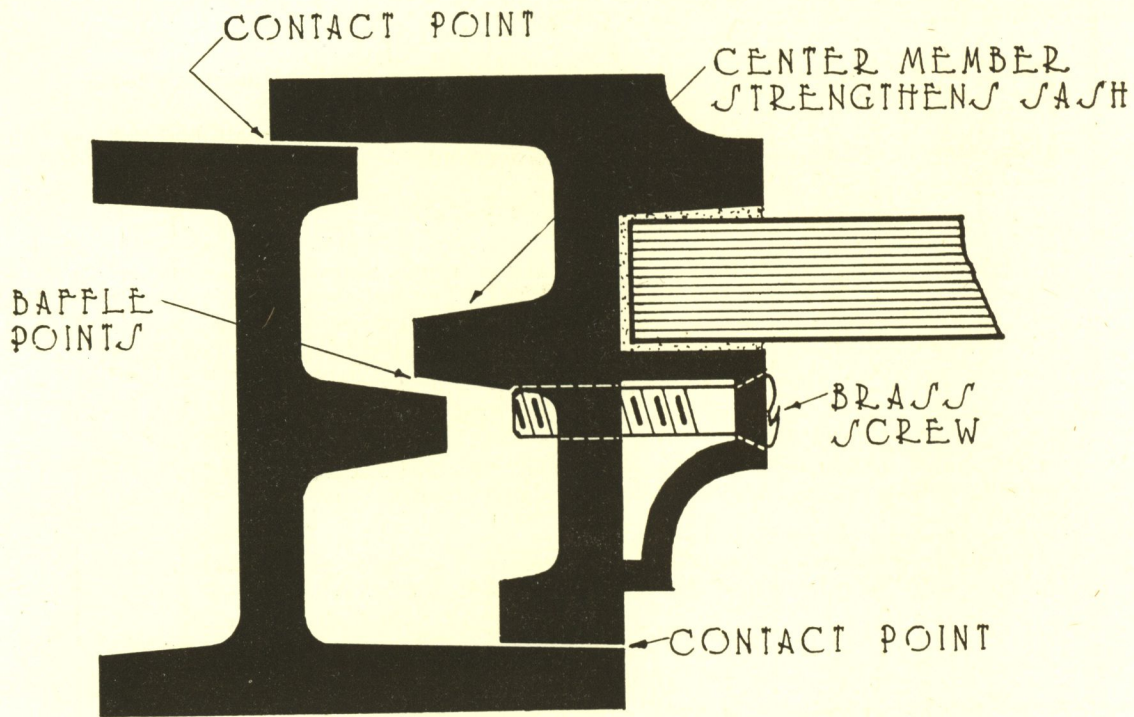


NOTE - APPLIED ORNAMENT IS IN CAST NON-FERREOUS METAL, AND DESIGN CAN BE VARIED TO SUIT INDIVIDUAL TASTE.
SEE PAGE 23 FOR DETAILS OF STANDARD MULLIONS & TRANSOMS.

I.C. Co.

FULL SIZE DETAILS FURNISHED ON REQUEST.

INTERNATIONAL CASEMENTS THE THREE-POINT WEATHERING SASH



INTERNATIONAL "THREE-POINT" SECTION
DRAWN TWICE ACTUAL SIZE.

So many of our friends and others have asked us from time to time where the advantages of Three Weathering Point Sections come in, when we make no claim to "Three Points of Contact." It is general knowledge in all forms of constructural work where provision has to be made for resisting bad weather that the greater the number of "baffler" points it is possible to provide, the greater the possibility of successfully resisting the entrance of rain, snow, wind, etc.

This is one of our arguments for the use of "Three Weathering Point Sections." We insist on the careful bedding and contact of the sash and frame on the outer and inner surfaces and the intermediate or third points of weathering act as bafflers of a most efficient character.

There is, however, another feature in connection with the use of "Three Weathering Point Sections" namely, the very great additional strength and rigidity given to the sections by these additional members.

We feel sure these arguments together with the success of our sash are all that is necessary to justify our continued and extended use of "Three Weathering Point Sections."

INTERNATIONAL CASEMENT HARDWARE



THE hardware and operating devices fitted to metal casement windows form a most important part in the proper functioning of the various types. We have given considerable thought to the design and construction, resulting in many improvements.

The whole of our bronze hardware is manufactured in Jamestown under our own personal supervision.

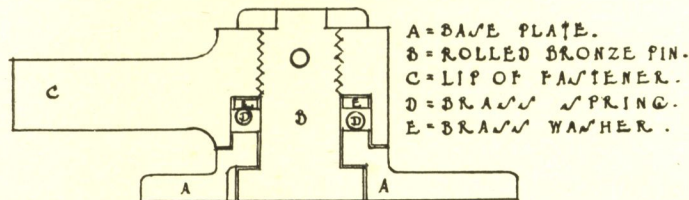
Particular attention is drawn to the sketches below, showing improved construction of both fasteners and sliding adjusters. The former have been changed so that greater bearing surfaces could be obtained, thus insuring more strength and longer life, and changes on the latter have been made to prevent rattling on windy days.

SPECIAL NOTE

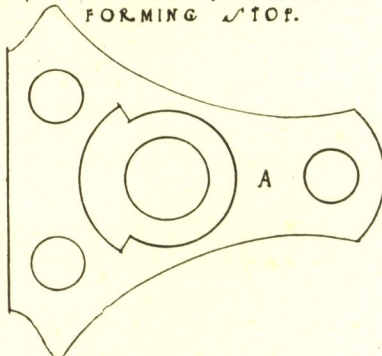
The No. 77 sliding adjuster holds the window open at 90 degrees, and in addition, on outswinging sashes, will hold sash quite rigid if opened only one-eighth inch or even less.

On page 49 we have illustrated suggestions for wrought iron hardware. For special rooms we can execute this in the true spirit of the Tudor period.

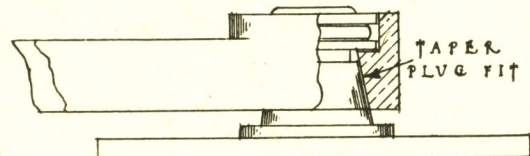
FULL SIZE SECTION THRU FASTENER.



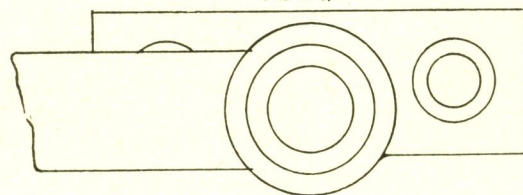
PLAN OF PLATE SHOWING QUADRANT ON PIN FORMING STOP.



FULL SIZE SECTION THRU SWIVEL JOINT NO 77 ANTI-RATTLE ADJUSTER

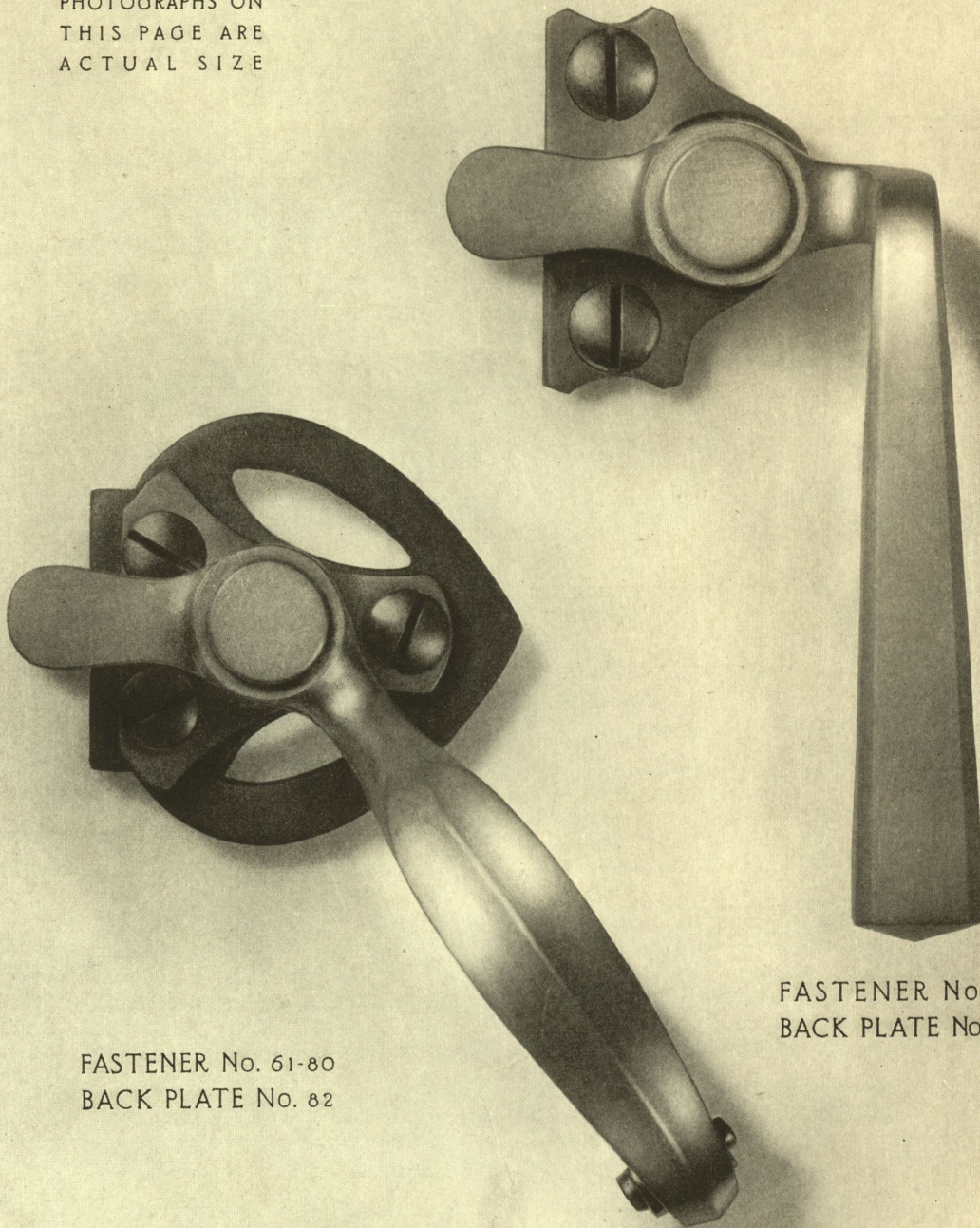


PLAN



INTERNATIONAL CASEMENT HARDWARE

PHOTOGRAPHS ON
THIS PAGE ARE
ACTUAL SIZE

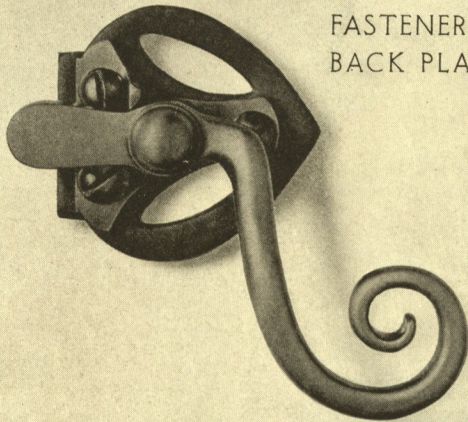


FASTENER No. 57
BACK PLATE No. 86

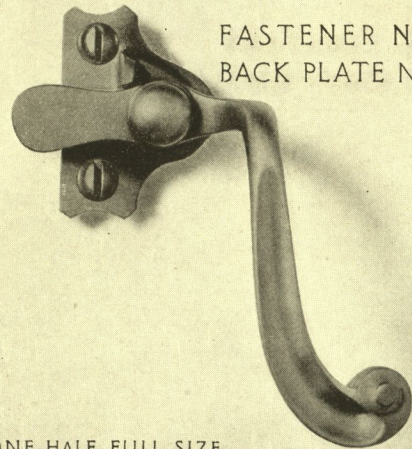
FASTENER No. 61-80
BACK PLATE No. 82

SEE PAGES 13, 15, 17 AND 19 FOR PHOTOGRAPHS OF HARDWARE FITTED TO SASHES

INTERNATIONAL CASEMENT HARDWARE

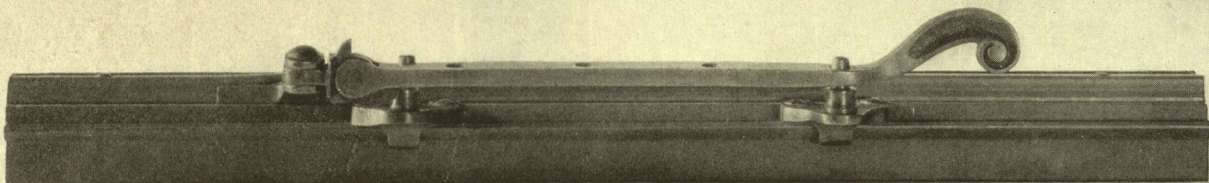


FASTENER No. 60-80
BACK PLATE No. 82

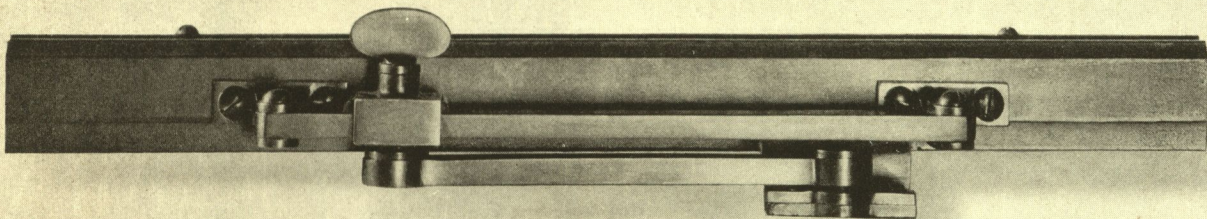


FASTENER No. 51
BACK PLATE No. 86

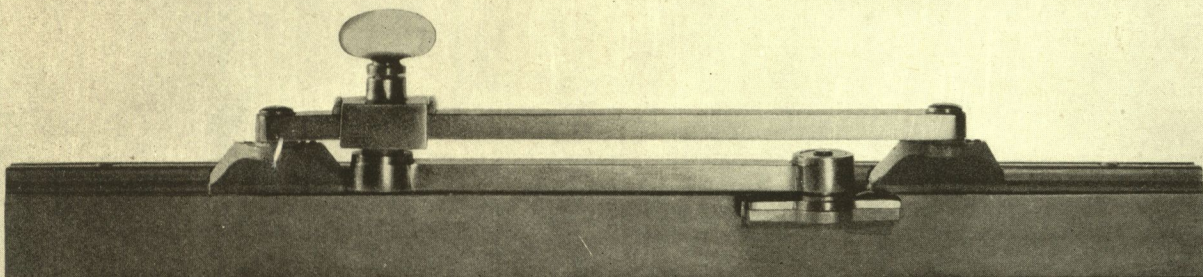
PHOTOGRAPHS OF FASTENERS ARE ABOUT ONE-HALF FULL SIZE



PIN ADJUSTER No. 71
CANNOT BE USED ON SIDE-HINGED CASEMENTS IF SCREENS USED



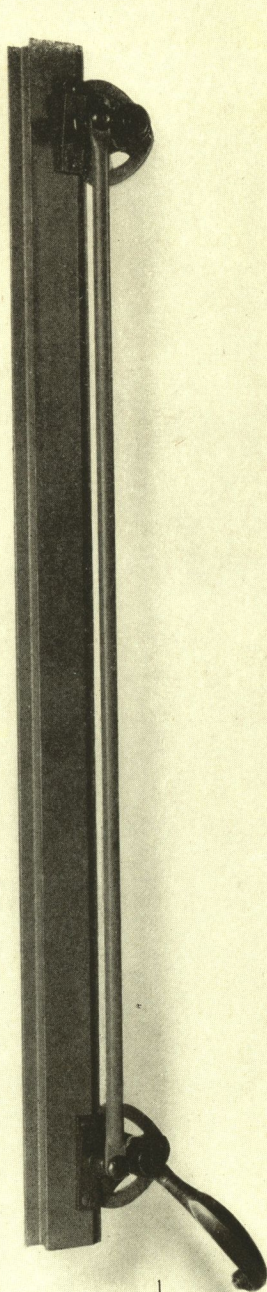
SLIDING ADJUSTER No. 77R—FOR INWARD OPENING CASEMENTS



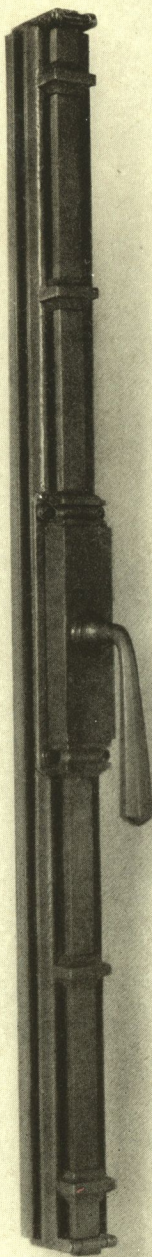
SLIDING ADJUSTER No. 77—FOR OUTWARD OPENING CASEMENTS

PHOTOGRAPHS OF ADJUSTERS ARE ABOUT ONE-THIRD FULL SIZE

INTERNATIONAL CASEMENT HARDWARE

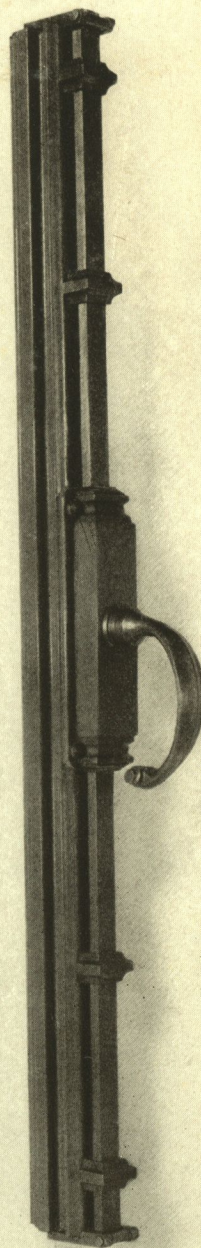


NO. 1. FASTENER 61-80
WITH DOUBLE-GRIP BOLT.
USED ON ALL CASEMENTS
OVER 5' 0" HIGH

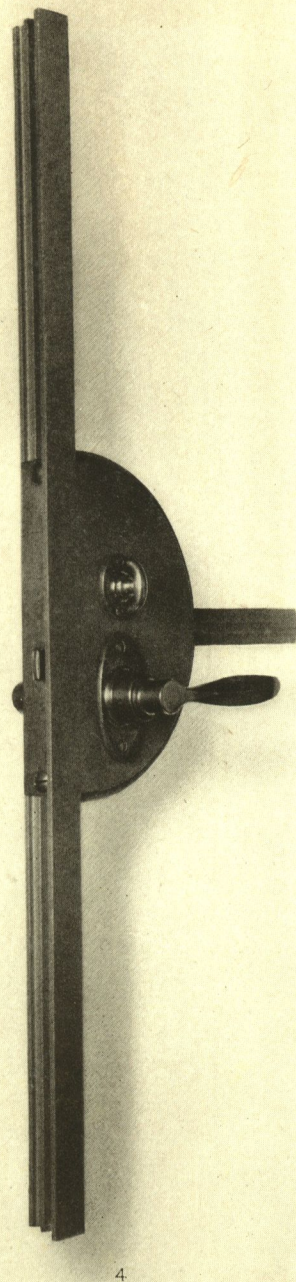


NO. 2. CREMONE
BOLT 160-57

CREMONE BOLTS ARE USED ON
ALL PAIRS FRENCH CASEMENTS

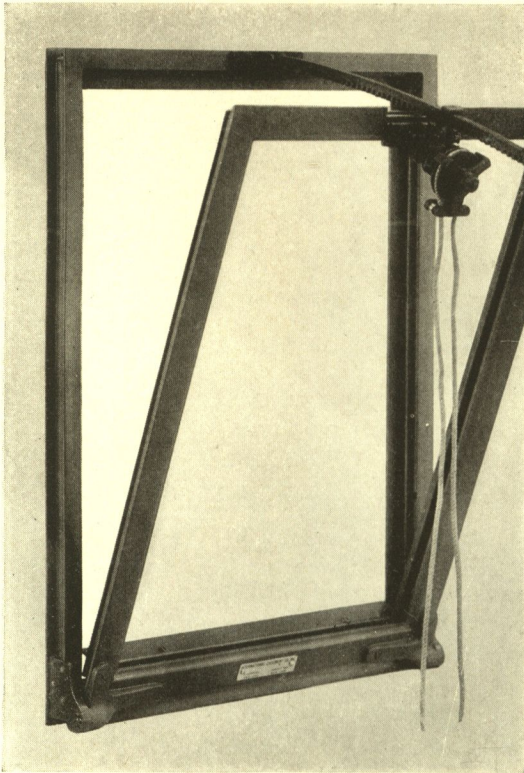


NO. 3. CREMONE
BOLT 160-61

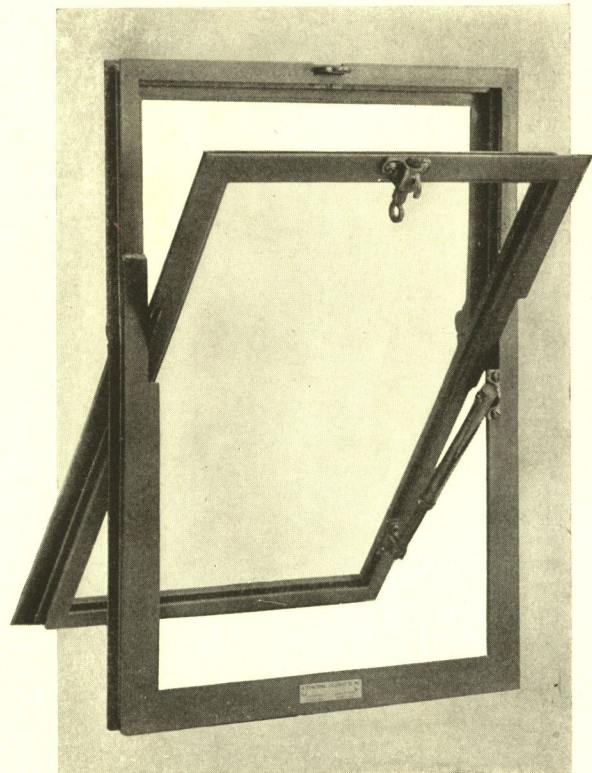


NO. 4. LATCH NO. 2
WITH LEVER HANDLES
NO. 61 AND ROSETTE
NO. 188. USED ON ALL
CASEMENT DOORS
OPERATING BOTH
INSIDE AND OUTSIDE

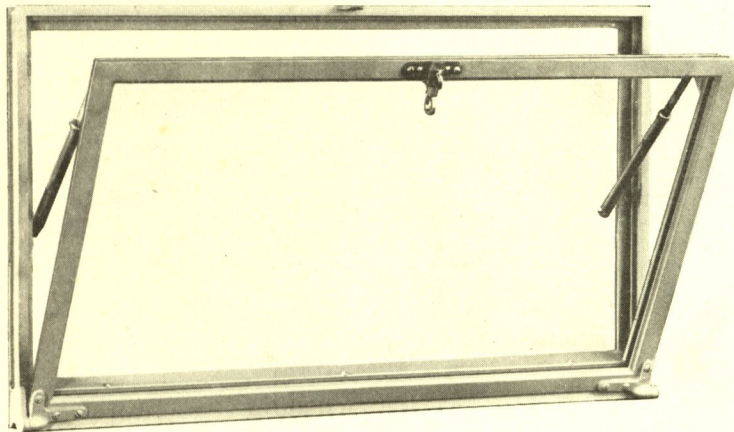
INTERNATIONAL TRANSOM HARDWARE



Bottom Hinged Transom. Fitted with Iron and Bronze operator. Made in three sizes:
No. 109, working by endless cords opens sash 10"
No. 110, working by endless cords opens sash 15"
No. 111, working by endless cords opens sash 18"



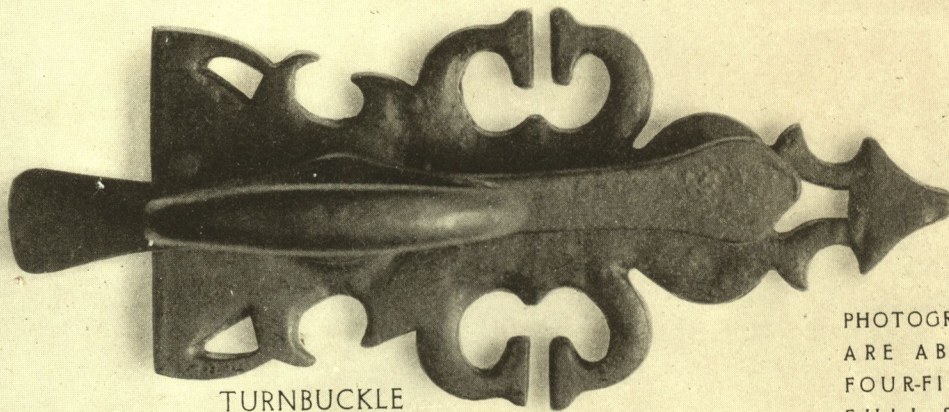
Pivoted Transom. Bronze spring catch to work by pole or cords, bronze friction adjuster holding sash open at any angle. Sashes over 30" wide have two adjusters.



Bottom hinged transom fitted with Bronze spring catch No. 116 and two friction adjusters. These latter are furnished at slight extra cost when it is necessary to open sash for varying degrees of ventilation.

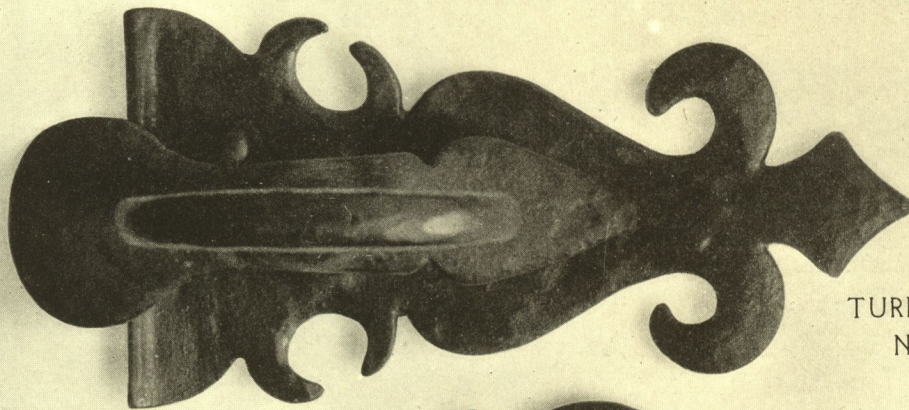
FOR FURTHER PHOTOGRAPHS OF TRANSOM HARDWARE, SEE PAGES 13, 17 AND 19.
GANG OPERATORS (ROD GEARING) WILL BE FOUND ILLUSTRATED ON PAGES 50 AND 51.

INTERNATIONAL CASEMENT HARDWARE

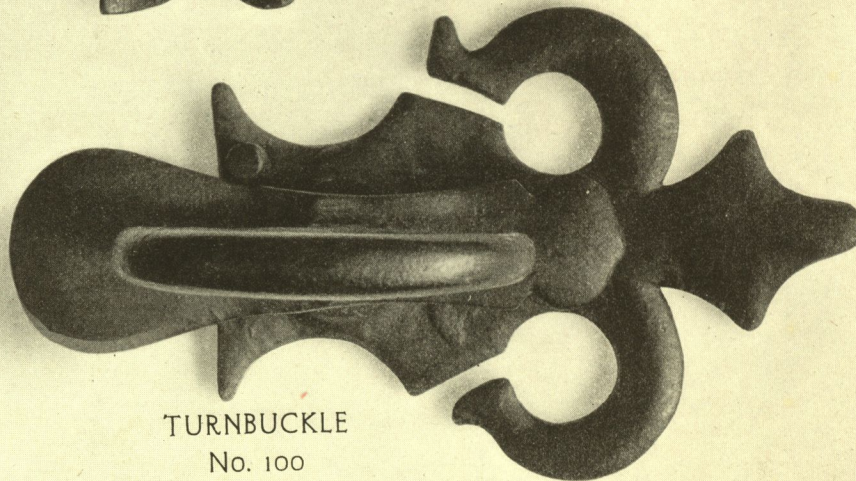


TURNBUCKLE
No. 105

PHOTOGRAPHS
ARE ABOUT
FOUR-FIFTHS
FULL SIZE



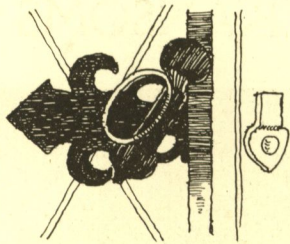
TURNBUCKLE
No. 102



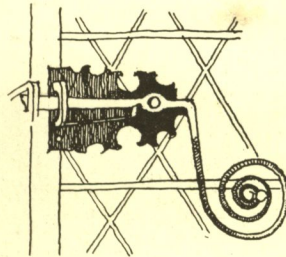
TURNBUCKLE
No. 100

THESE TURNBUCKLES AND PLATES ARE MADE IN MALLEABLE IRON, HAMMERED, AND FURNISHED FOR SIDE-HINGED CASEMENTS SWINGING OUT, AT THE SAME PRICE AS THE REGULAR BRONZE HARDWARE, OR MAY BE SUPPLIED IN HAND-FORGED WROUGHT IRON AT EXTRA COST

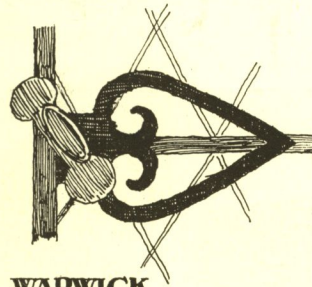
TYPES OF OLD FURNITURE etc.



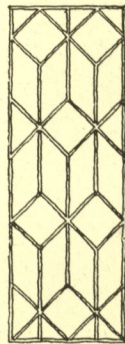
KENT



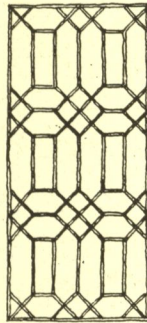
KENT



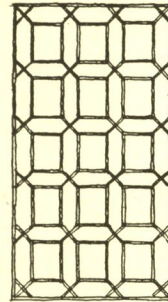
WARWICK



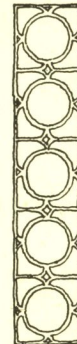
HADDON



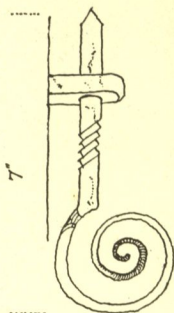
BROADWAY



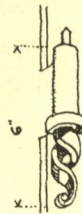
GLOUCESTER



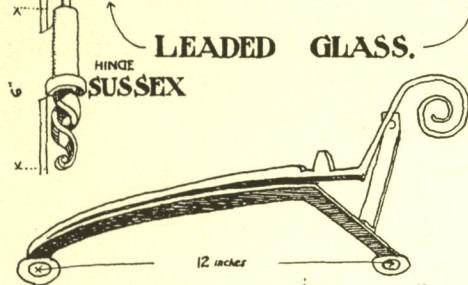
BRAMHALL



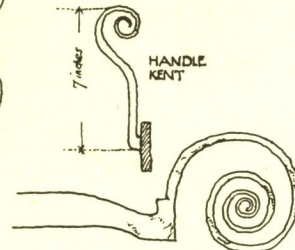
HINGE AT
SOMERSET



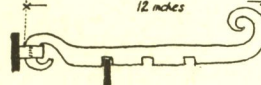
HINGE
SUSSEX



QUADRANT
KENT

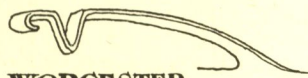


HANDLE
KENT

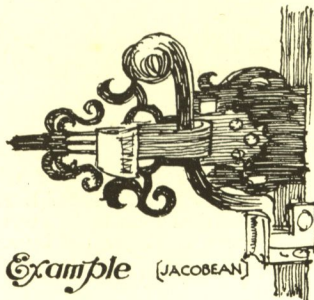


GLOSTER

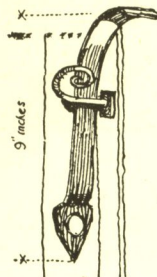
SOMERSET



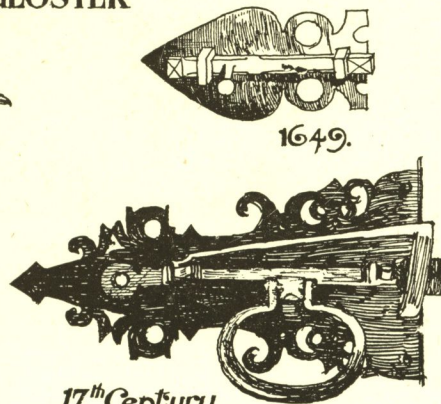
WORCESTER



Example (JACOBAN)



SURREY



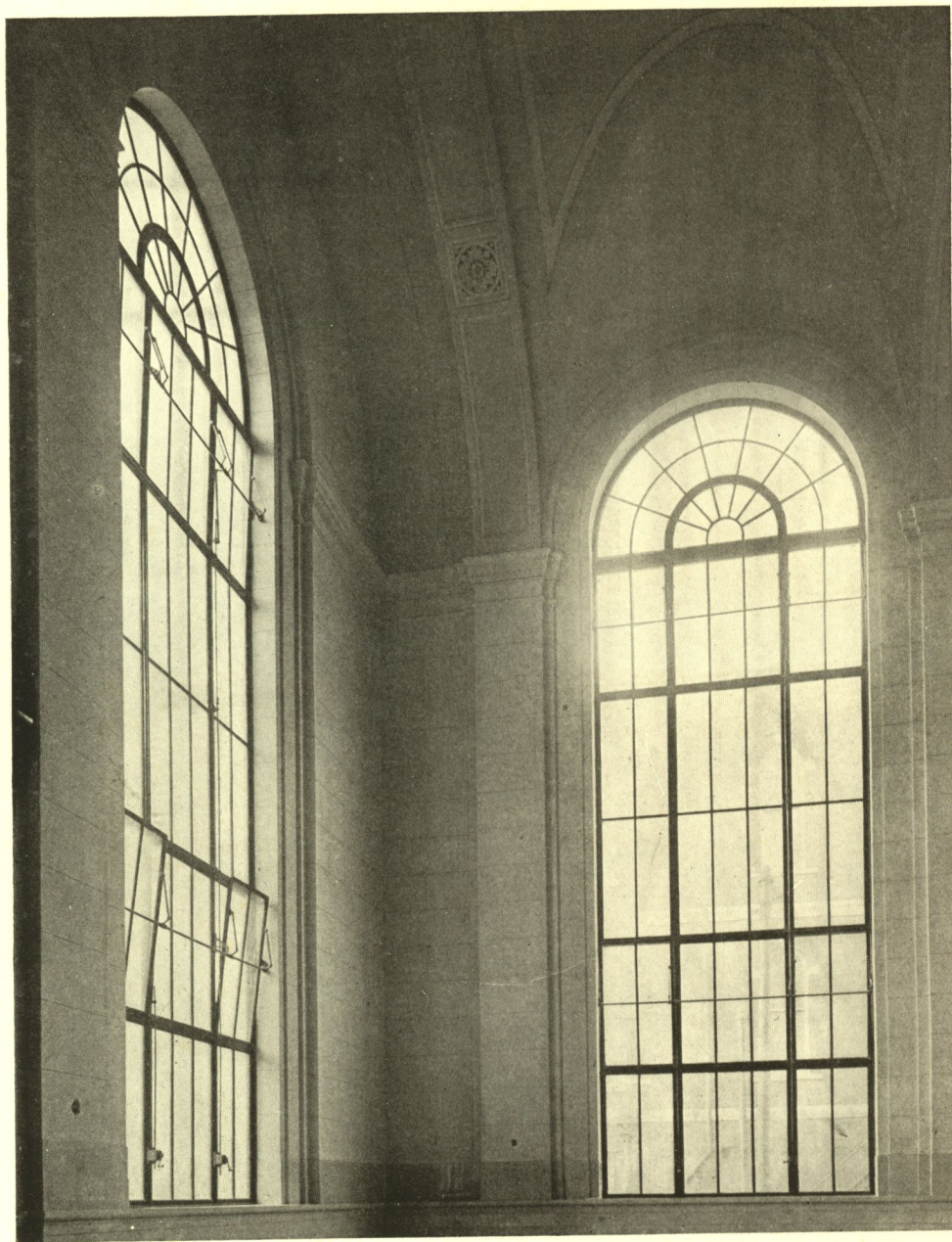
17th Century

SYDNEY E CASTLE
delineator 1912

I.C. Co.

FRANK BETHUNE

ROD GEARING (GANG OPERATORS) FOR INTERNATIONAL TRANSOMS



EAST BROOKLYN SAVINGS BANK, BROOKLYN, N. Y.

Koch and Wagner, Architects

NOTE: When requiring gang operators for fitting to International Steel Windows, the following specification is recommended: "The ventilators shall be fitted with INTERNATIONAL Rod Gearing, operating the transoms in suitable gangs—horizontal and vertical rods to be steel of suitable size. Gear Box and Handle to be polished bronze, rod gearing to be erected by sash manufacturer." Bronze down rods furnished if desired at extra cost.



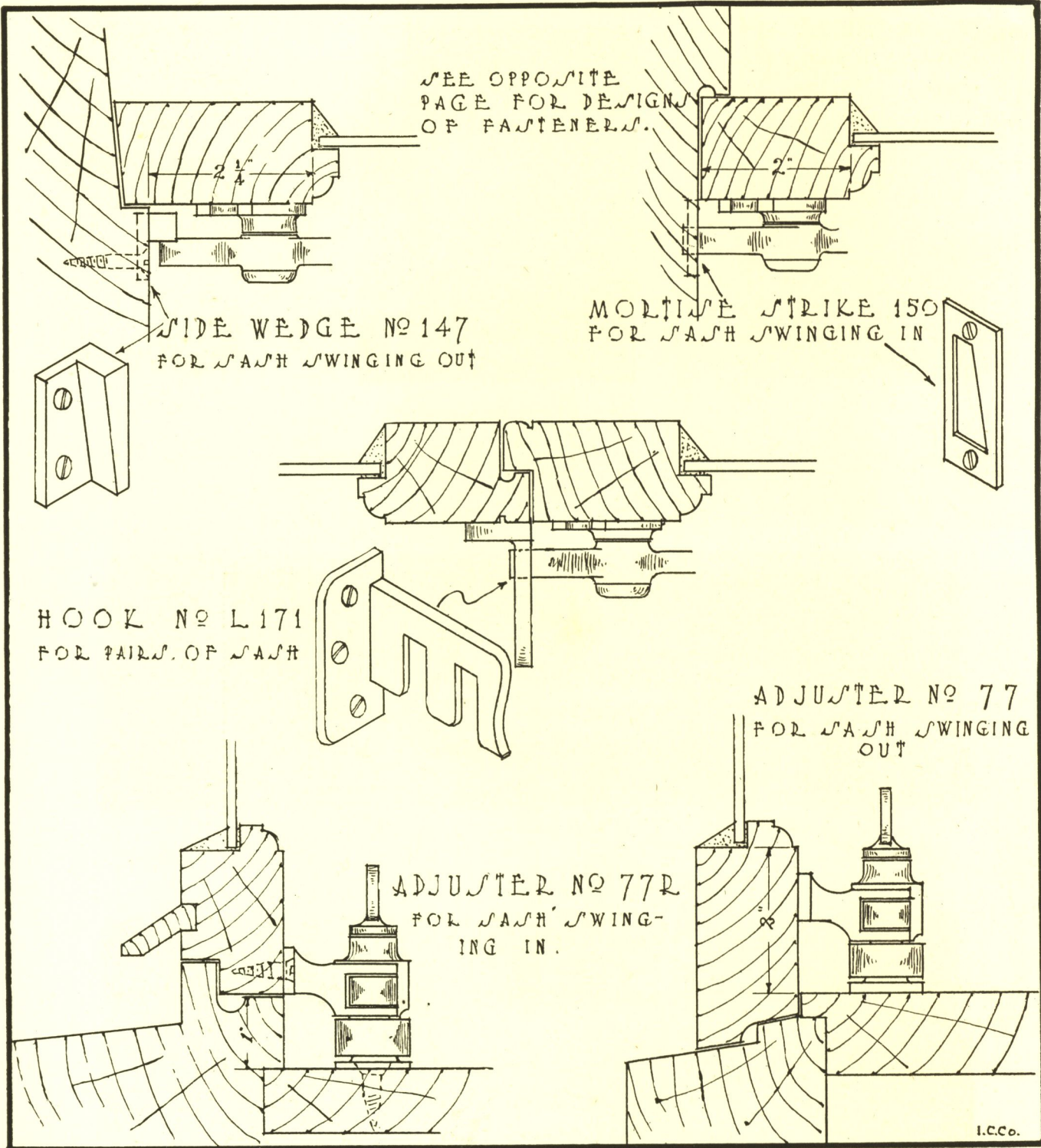
ROD GEARING FOR INTERNATIONAL TRANSOM SASHES

MALDEN SAVINGS BANK
MALDEN, MASS.
Monks & Johnson, Architects



UNION MARKET
NATIONAL BANK
WATERTOWN, MASS.
Dennison & Hiron, Architects

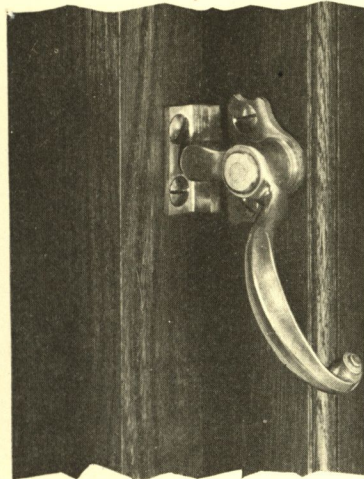
INTERNATIONAL HARDWARE FOR WOOD CASEMENT SASH



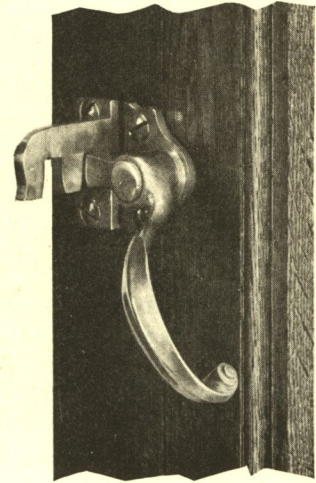
INTERNATIONAL HARDWARE FOR WOOD CASEMENT SASH



Fastener No. 57-86 with mortice
strike No. 150

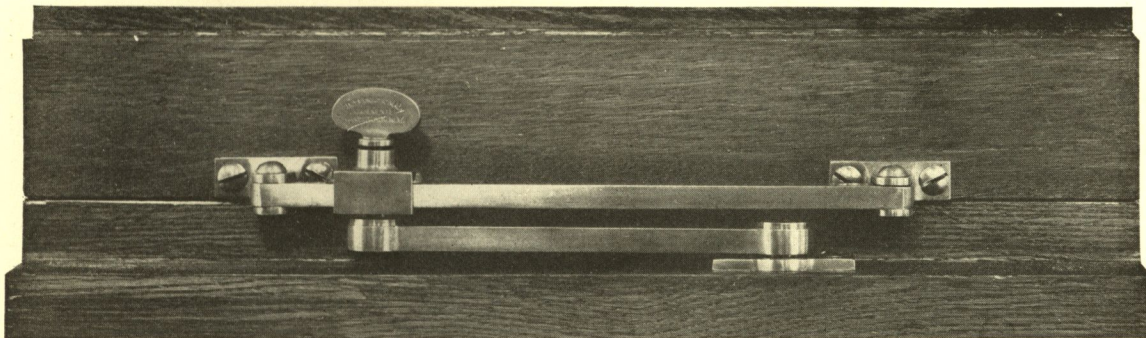


Fastener No. 61-86 with side
wedge No. 147

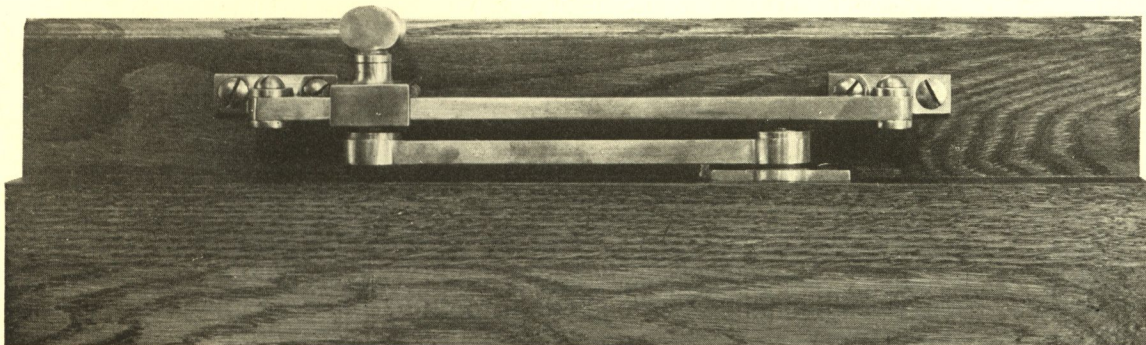


Fastener No. 61-86 with hook
L-171

NOTE: IN ORDERING STATE SWING OF SASH, R OR L—THE SWING IS THE POSITION OF
HINGES WHEN LOOKING AT SAME FROM INSIDE.

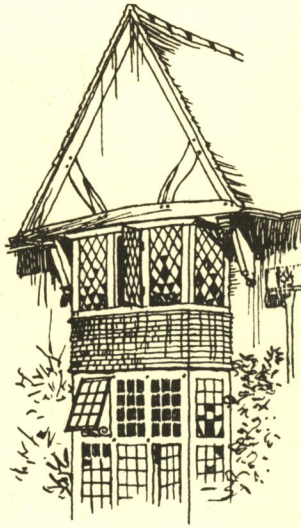


ADJUSTER NO. 77R FOR INWARD OPENING SASH.

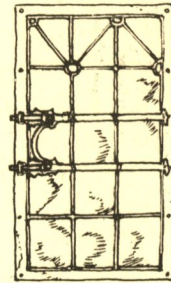
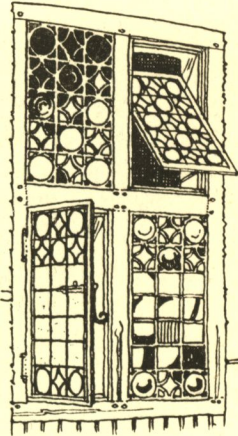


ADJUSTER NO. 77 FOR OUTWARD OPENING SASH

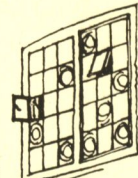
SKETCHES FOR WINDOW FITTINGS.



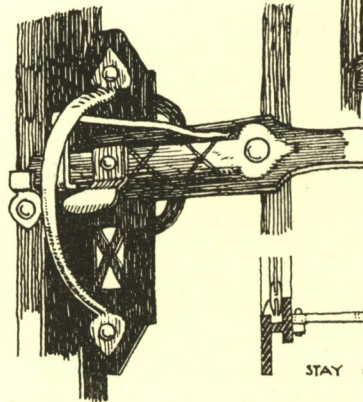
A BAY



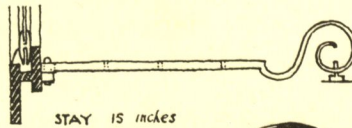
CASEMENT & GLASS



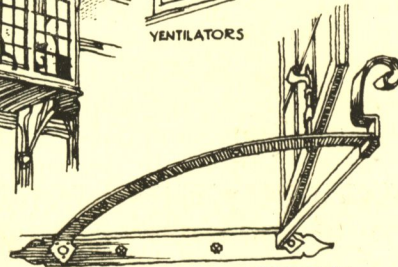
VENTILATORS



NORFOLK

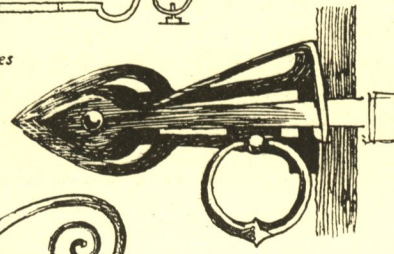


STAY 15 inches

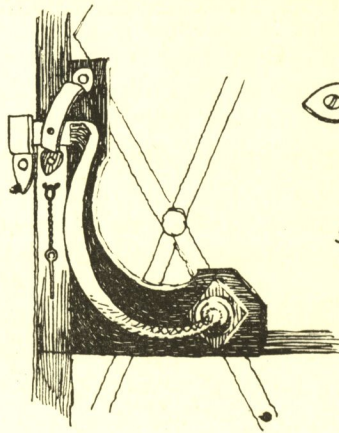


QUADRANT
1/4 FULL SIZE

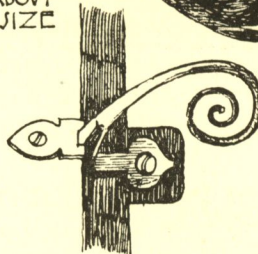
FASTENERS ABOUT
HALF FULL SIZE



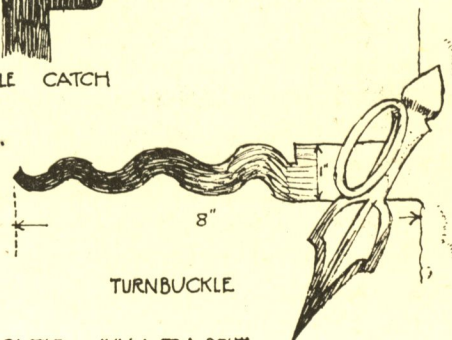
RING DROP



CASEMENT HANDLE



SIMPLE CATCH



TURNBUCKLE

SYDNEY E. CASTLE INV : ET : DELT.

10 60

THE CASEMENT IN INTERIOR DECORATIONS

CURTAINS AND DRAPERIES

By Richard H. Pratt, 2d: Associate Editor, "House and Garden"



CASEMENT windows, particularly with the improved steel casements so popular today, are so decorative that the difficulty of their interior treatment is considerably decreased at the outset.

They are something more than mere frames for sunlight; they are pictures in themselves. The delicate lines and the interesting spacing of their leaded panes together with the variety of angles at which they may be set ajar, give them a quality as unique as it is valuable to the room on which they open.

This quality makes it possible in rooms where decoration is handled with a fine degree of restraint and mellow asceticism to do without curtains entirely. This is advisable only in cases where the windows face the North and escape the glare of direct sunlight, or on windows not subject to the gaze of passersby and where curtains would be essentially an ornament rather than a necessity.

The first function of curtains is to diffuse the glare of sunlight, to soften and color it while the ornamental possibilities of curtains are, as they should be, secondary. Thus, where the light coming through the window is especially strong, it will be necessary to have curtains of light, transparent material to act as a "filter." In rooms where the scheme of decoration is essentially fresh, depending for its effect upon whites and greys and creams, the sash curtains should be white or a very light tint. In rooms, on the other hand, which are decorated in strong and striking colors, the sash curtains, likewise may share the same effect but always with their transparency kept uppermost in mind, otherwise the brilliance of the room will be lost.

Side curtains of heavier, darker and more decorative materials are used to frame the window opening. They may be used with or without valances, which are nothing more in effect than a strip of the same material along the top of the window opening to connect the curtains hanging at the sides. Their color or pattern should be a repeat of the color or pattern which dominates the decoration of the room.

Curtains used with casement windows should be used as draw curtains, for with windows that swing outward (and it is especially desirable that casement windows should swing outward rather than inward) it is rarely practicable or desirable to use ordinary shades. In being able to do without shades and substitute curtains instead, which also serve as side draperies it is at once possible to simplify the whole window treatment and increase tremendously its effectiveness.

A word should be said in passing concerning the use of insect screens. The manufacturers of screens have so perfected and improved their product that only the slightest disturbance of the curtains or draperies is necessary to enable the sash to be opened or closed when the screens are in place. It is quite possible even to operate sash opening outward without moving the screen, though this particular method is not altogether to be commended as it necessitates a somewhat costly, and at times, unsightly mechanical device.

On the two following pages will be found interesting illustrations of interiors showing the decorative effect obtained by the use of casement curtains and draperies.



RESIDENCE OF
H. M. STERN
ROCHESTER, N. Y.



H. M. STERN ARCHT.

RESIDENCE OF
CHAS. A. CHAMBERS
FIELDSTONE, N. Y.



JULIUS GREGORY
ARCHITECT

J. G. G.





RESIDENCE OF
ALAN LEHMAN ESQ.
TARRYTOWN N.Y.



JOHN RUSSELL POPE
ARCHITECT.

RESIDENCE OF
W.J. DRAINARD ESQ.
SCARSDALE N.Y.



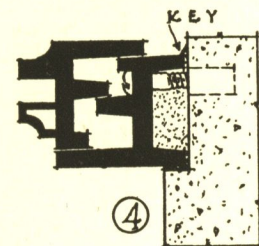
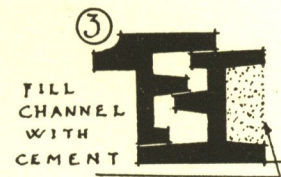
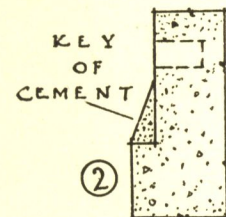
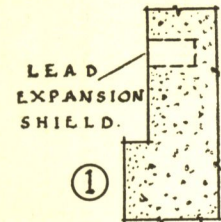
ALBERT J. BODKER
ARCHITECT.



INSTRUCTIONS FOR SETTING AND GLAZING INTERNATIONAL CASEMENTS

SETTING.....

Care must be taken to set the frame and sash square in the opening. If the opening is tight, it must be eased. On no account must the frame be forced in the opening. For masonry drill round holes for lead expansion shields to suit slots already punched in outside frame. Put key of mastic cement all around masonry rebate as sketch No. 2 and then fill channel of frame with mastic (3). Press frame into opening and carefully screw the frame to the lead plugs, taking great care not to twist or distort the frame in screwing up. To test the fit, close the sash frame gently, when any imperfections will immediately show up. Correct any faults by loosening the setting screws and wedge the frame to correct position. Neatly point the cement inside and outside, leaving the key of cement on outside (4). For setting to wood, steel or cast iron, the instructions are the same except that the lead shields are not required.



IMPORTANT...

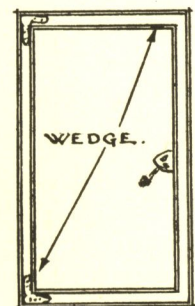
Casements should not be set until the rough trades are completed at the building, particularly the plastering. Casements are shipped hung complete and fitted with all hardware. If they are put in too early, they are bound to be damaged.

"BILTIN" FRAMES.....

These are delivered nearest freight station to the job and are set up, built in and pointed by mason contractor. Before placing on stone sill check carefully which is inside and outside of frame, then fill sill with cement mortar. Frames must be set plumb and level with wall line, and wood spreaders or braces put in to hold the shape.

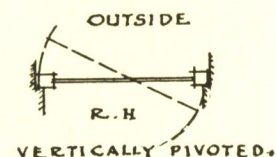
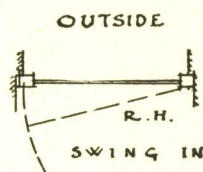
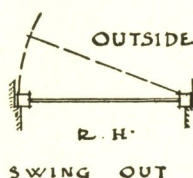
GLAZING.....

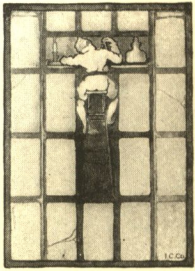
Before putting in the glass, take note that the casement opens and closes properly. Remove glazing beads and see that glass is bedded in good quality steel sash putty both front and back. Always wedge the glass as shown by sketch, the lower wedge to be inserted first. This is very necessary to prevent the casement sagging with the weight of the glass.



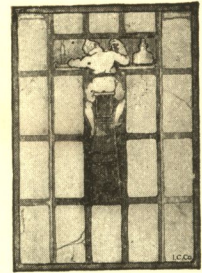
HANDS OF CASEMENTS..

These are always given when looking outside from the inside.





LEADED GLASS AND GLAZING



WE do not manufacture leaded glass, but it is a distinct advantage for the casement manufacturer to include leaded glass, when required, in his contract, and so avoid errors in sizes and positions of ornamental fastener plates which are governed by the leaded glass design. It also enables us to give a complete guarantee as to weathertightness, because it places the full responsibility with one firm when the setting and glazing is done by us.

LEADED GLASS SPECIFICATIONS

The following form of specification is recommended: "The casements shall be glazed with leaded glass using ($\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", state which) lead comes, the horizontal comes to have steel reinforcing bar, embedded in heart of lead—glass to be (here state kind of glass required). Work to be thoroughly cemented both sides, and cement to be set hard before shipping. Leaded glass and glazing to be included in the contract for metal casements."

PLATE AND SHEET GLASS GLAZING

It is not essential to include ordinary glazing in the casement manufacturer's contract, but we recommend under the glazing specifications be included the following: "The sash manufacturer will provide steel glazing beads, glass to be bedded back and front in first quality steel sash putty, each light of glass in swinging sashes to be properly wedged in accordance with the instructions of the sash manufacturer—glazing beads to be carefully replaced using all the screws furnished."



NPresenting a small collection of old and new English windows, we can hardly avoid reference to the similitude between the two. It must be confessed that the spirit is much the same over all these years and when some of us - moderately discriminate in such matters - chance to light upon an interesting house, we vaguely wonder whether the Author is still in Practise, or enjoyed this distinction about three hundred years ago.

IF progress is marked by change, we indeed appear to have made little, but we like to think of our weakness - if such it is - not as retrogression, but as a pause in a delightful atmosphere; in narrow lanes maybe but those probably leading the quicker to new roads of good promise.

THE window would appear to have altered the least, but in this case we doubt if the cause is so much attributable to parched resource as to the enduring qualities of the simple iron Casement, the survival of which is more convincing than the Catalogue eulogy employed on its behalf by all the Manufacturers in existence. But these examples may create renewed interest and with that achieved, our purpose in presenting them has not been in vain.



INTERNATIONAL CASEMENT

COMPANY INC. JAMESTOWN N.Y.



• OWLPEN •
• MANOR HOUSE •
• GLOUCESTERSHIRE •

I. C. CO.

The TUDOR
HOUSE OF THE
DAUNT
FAMILY. IT IS
GIVEN THAT
ON MARGARET
SLEPT HERE
THE NIGHT
BEFORE BATTLE
OF TEWKESBURY.

ANNO
1516
T.D

LEADS
1/4 & 1/2

SCALE
HALF AN INCH
TO A FOOT

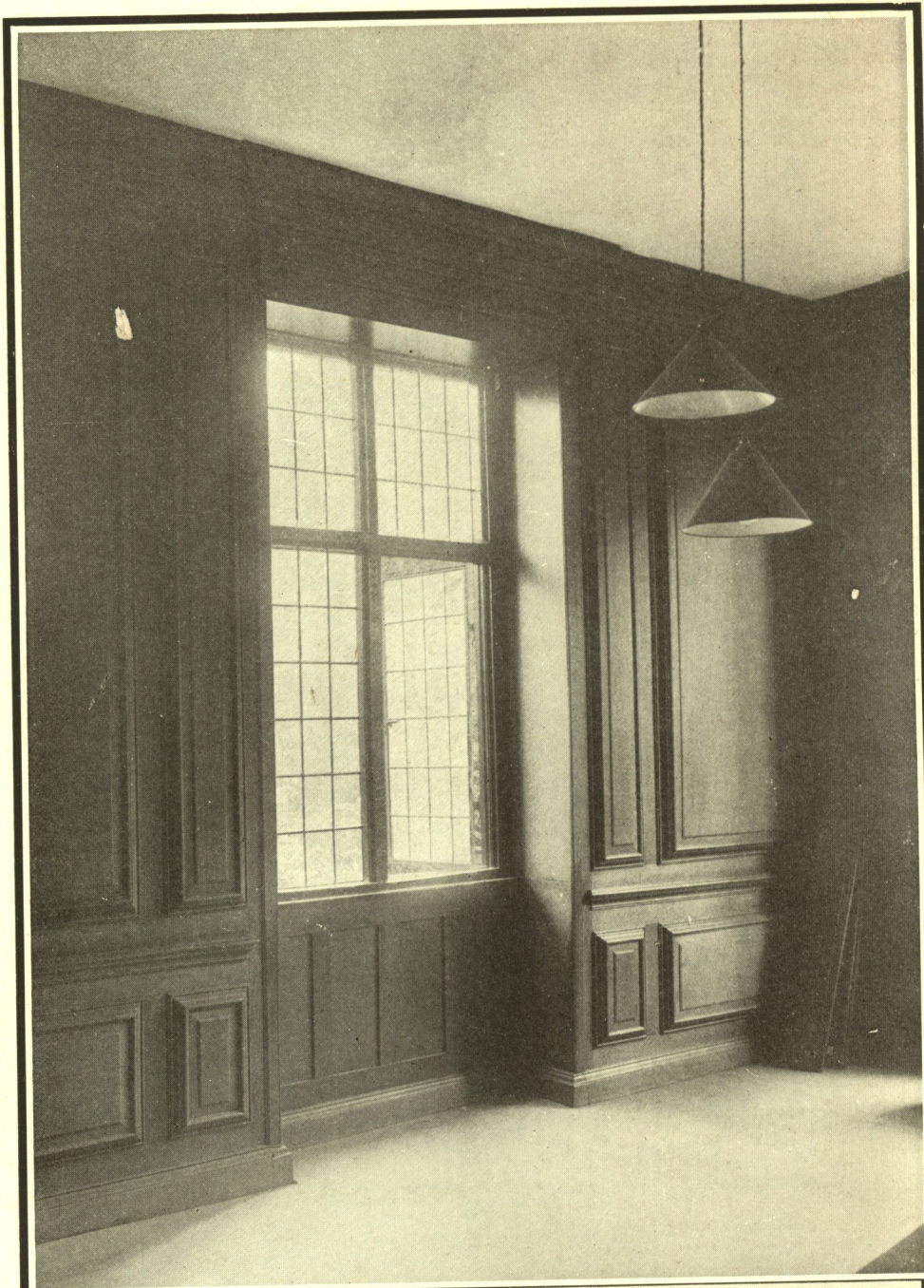
SYDNEY E CASTLE
mens et delit 1920

OUTSIDE

OWLPEN
MANOR
HOUSE
GLOUCESTERSHIRE

INSIDE

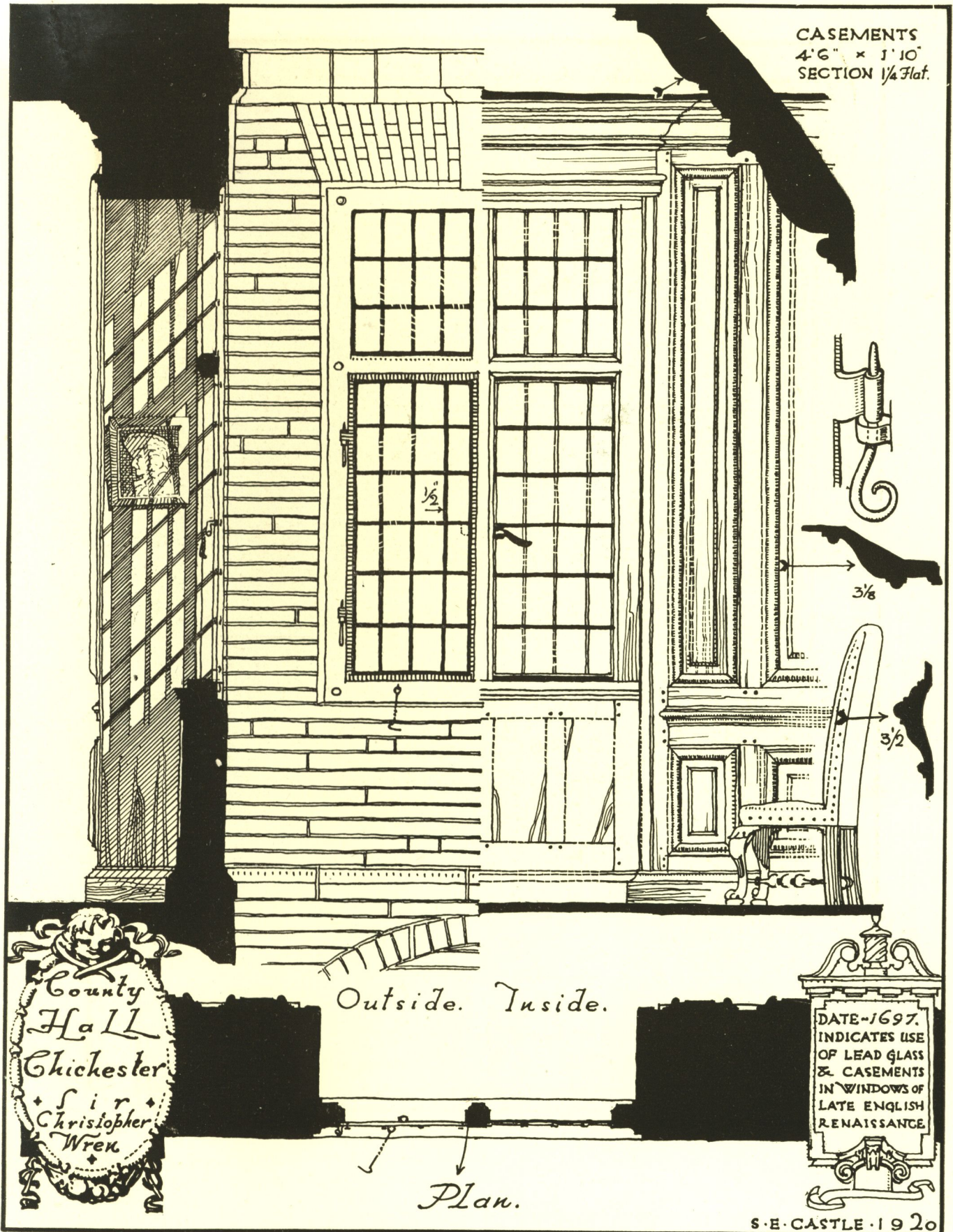
CASEMENTS 1/4 FLAT
1'5 1/2 x 2'9 high
3/4 GUARD BARS



+ COUNTY HALL + + CHICHESTER +
+ FORMERLY A RESIDENCE +
SIR CHRISTOPHER WREN. ARCHITECT.

I.C.C.

CASEMENTS
4'6" x 1'10"
SECTION 1/4 Flat.



Outside. Inside.

Plan.

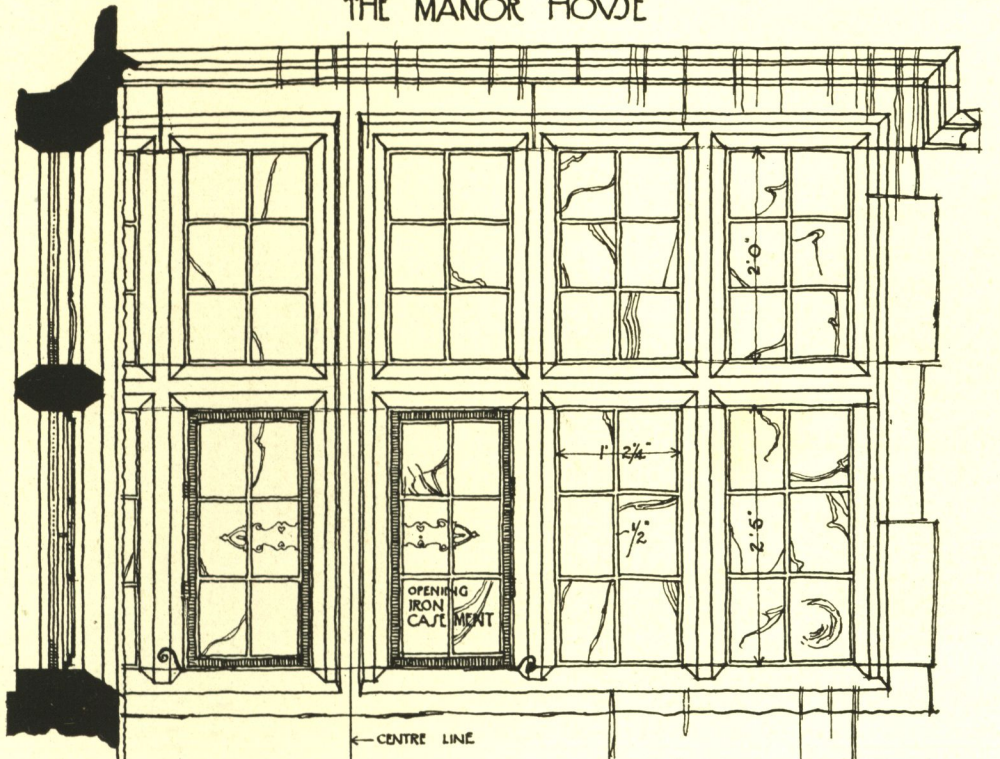
DATE-1697.
INDICATES USE
OF LEAD GLASS
& CASEMENTS
IN WINDOWS OF
LATE ENGLISH
RENAISSANCE.

S.E. CASTLE 1920



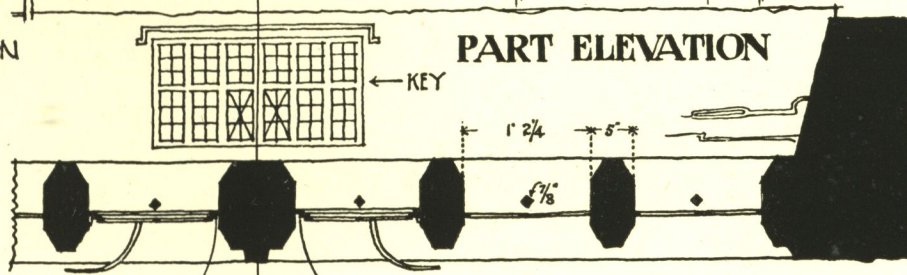
• THE • MANOR • HOUSE •
• UPPER • WELL • NEAR •
• STOW-ON-THE-WOLD •
• GLOSTER • SHIRE •

WINDOW AT UPPER SWELL NR STOW - ON - THE - WOLD, *Gloucestershire* THE MANOR HOUSE



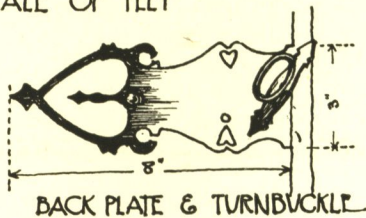
SECTION

PART ELEVATION

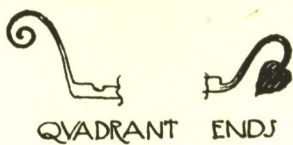


PLAN

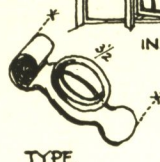
SCALE OF FEET



BACK PLATE & TURNBUCKLE

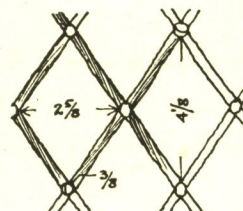


QUADRANT ENDS



TYPE

TYPE OF WINDOW



DETAIL OF DIAMOND PANES

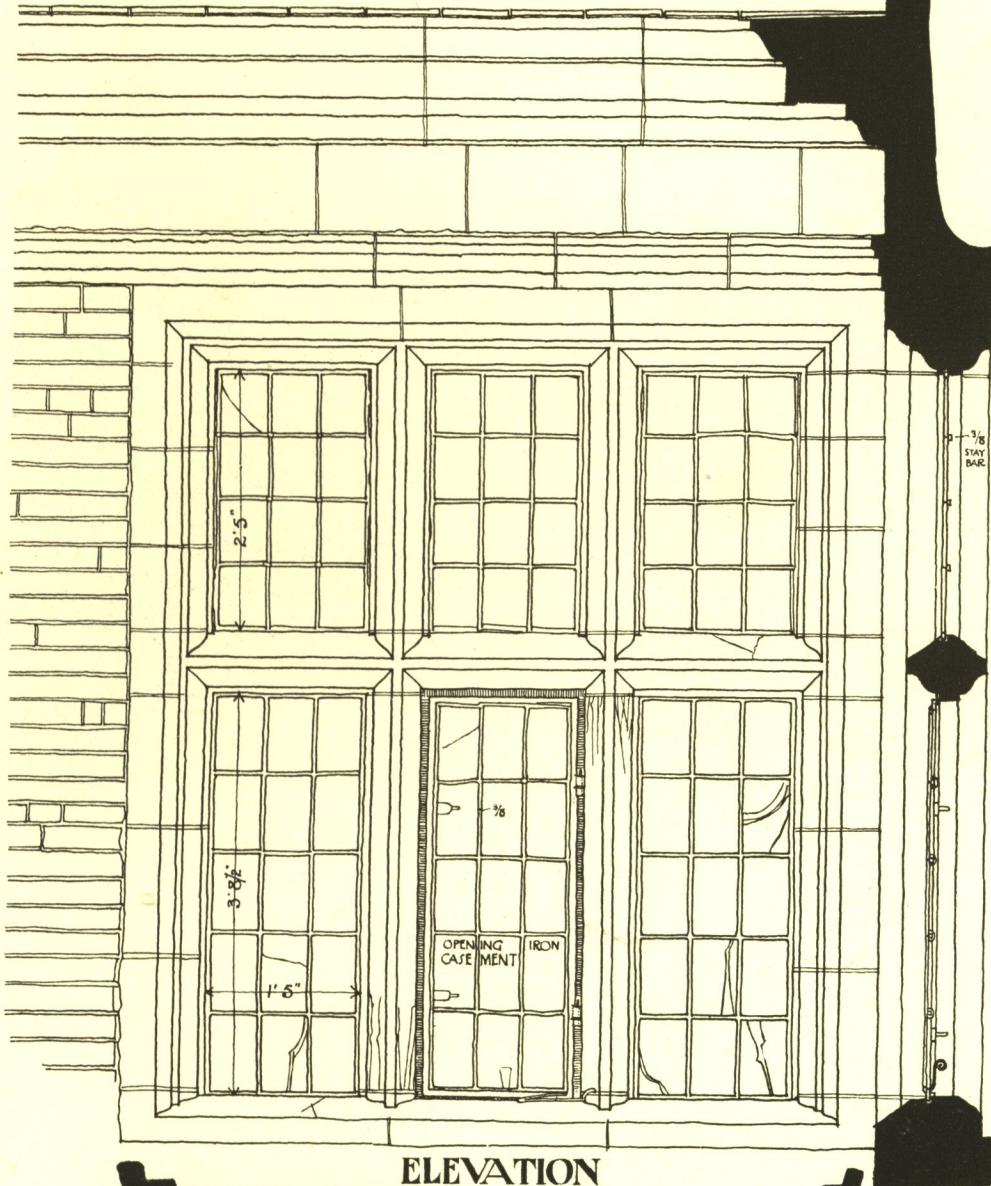
SYDNEY E. CASTLE
MEASURED & DRAWN 1912 I.C.CO.



•ASTON•
•WARWICK•
•ENGLAND•

•I.E.C.O.•

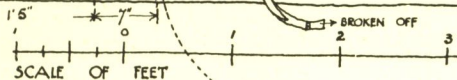
WINDOW TO FRONT, ASTON 1618-31 : WARWICK :



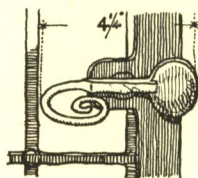
ELEVATION

SECTION

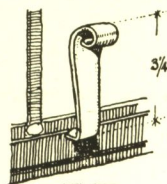
PLAN



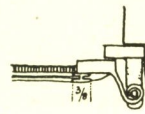
GLASS CLEAR VNEVEN FACE



TURNBUCKLE



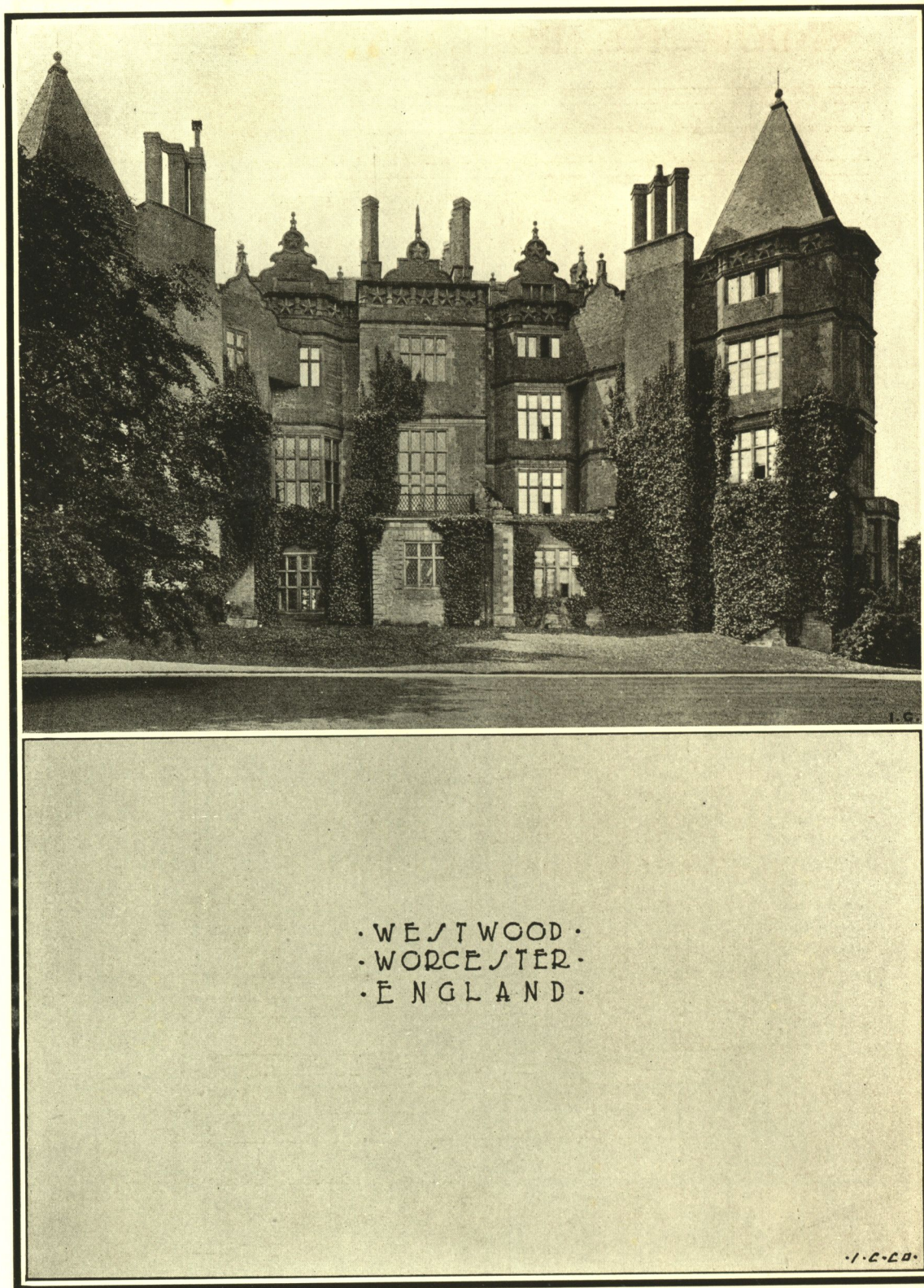
LEVER



HINGE

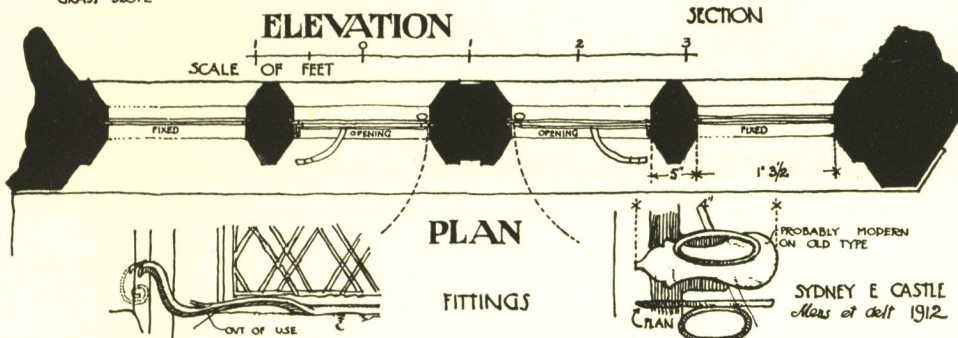
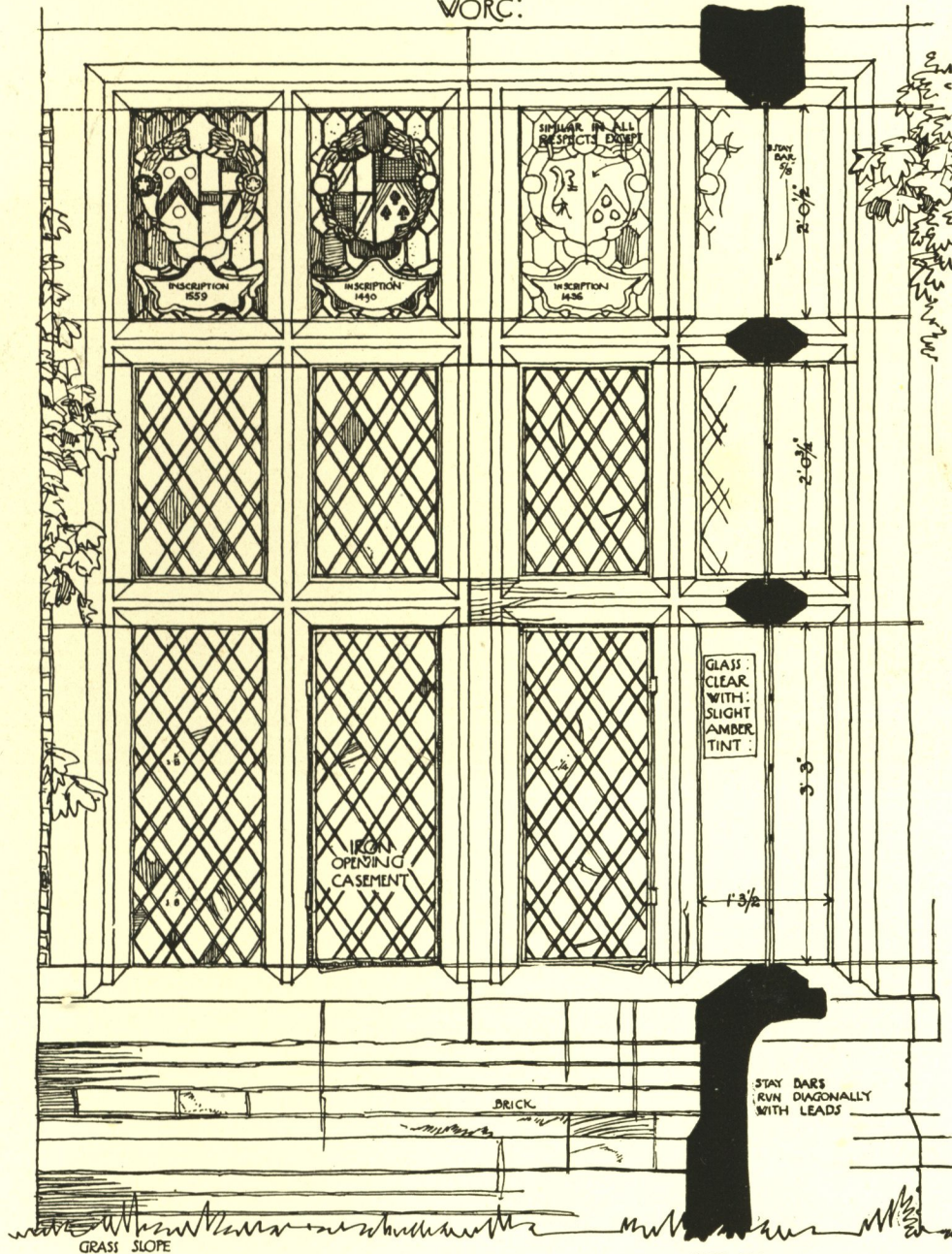
MEASURED & DRAWN
BY SYDNEY E CASTLE
1912

I.C. CO.



NORTH WINDOW WESTWOOD. 1586

WORC:

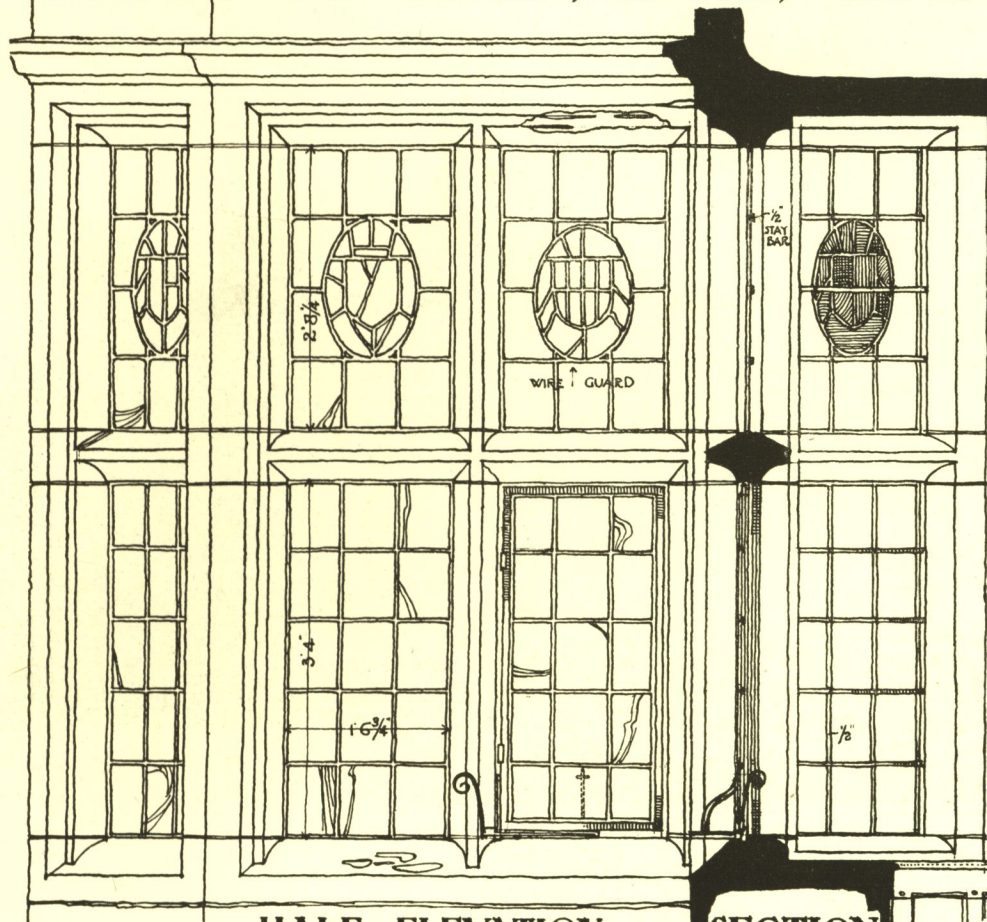




•KNOLE•
•KENT•
ENGLAND

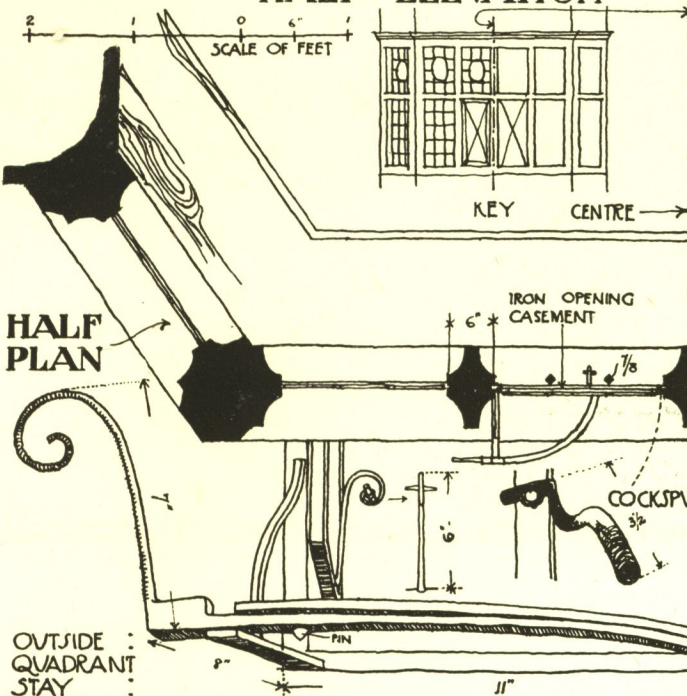
I.C.Co.

WINDOW TO COURT, KNOLE, KENT.



HALF ELEVATION

SECTION



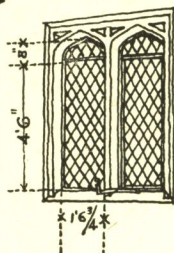
HALF PLAN

KEY CENTRE

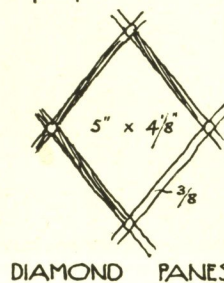
IRON OPENING CASEMENT

COCKSPUR

OUTSIDE :
QUADRANT
STAY

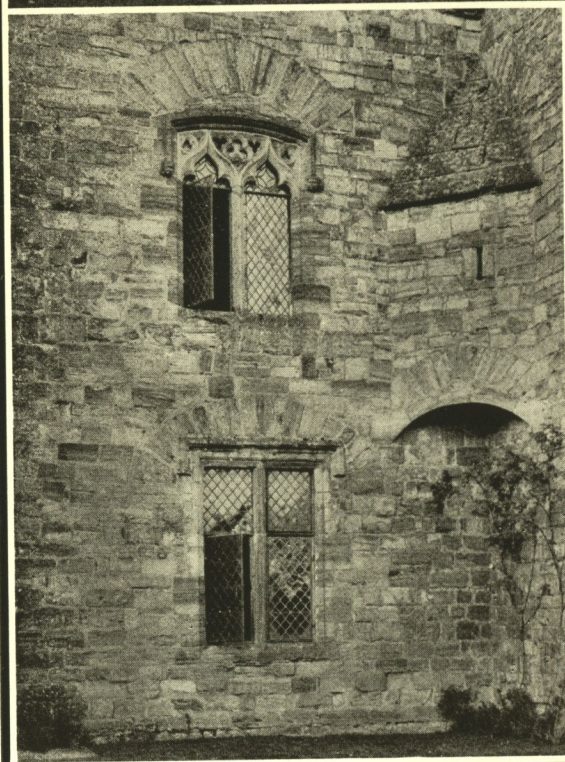
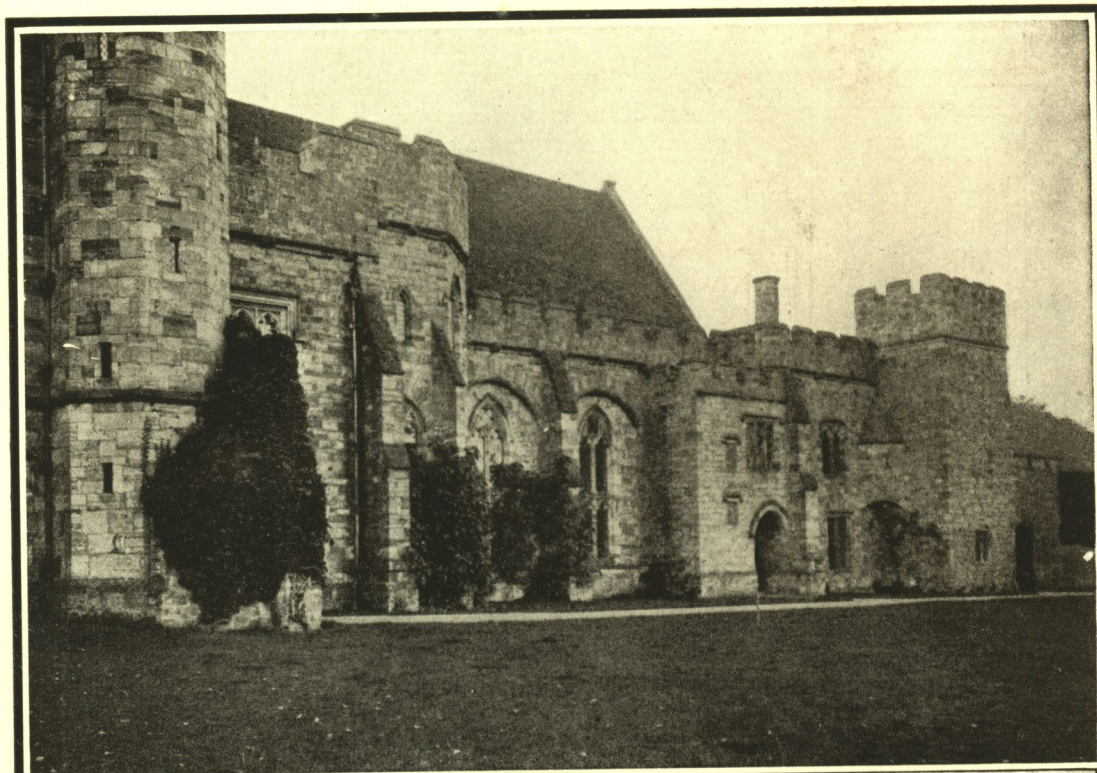


TYPE OF :
GENERAL :
WINDOWS
TO COURT



DIAMOND PANES

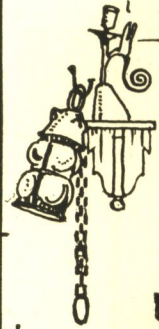
SYDNEY E. CASTLE
MENS ET DELT : 1912



PENSHURST PLACE
KENT

I.C.C.®

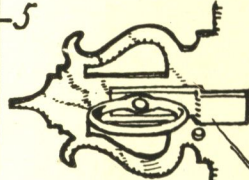
PENSHURST
PLACE
KENT



1/4" S. BARS
LEADS 3/8"

1
2
3
4

SCALE
IN FEET



FITTING

INSIDE OUTSIDE

OLD SHUTTER
IRON

S.E. CASTLE
1920.

CASEMENT
4' 11" x 1' 11"
1/4" FLAT BAR
LEADS 3/8
STAYS 1/4
GLASS CLEAR,
BROWN, RED
& YELLOW.

CASEMENTS
4' 5" x 1' 11"
1/4" FLAT BAR
STAYS 1/2 x 1/4
TRANSOME
1 1/2" BAR



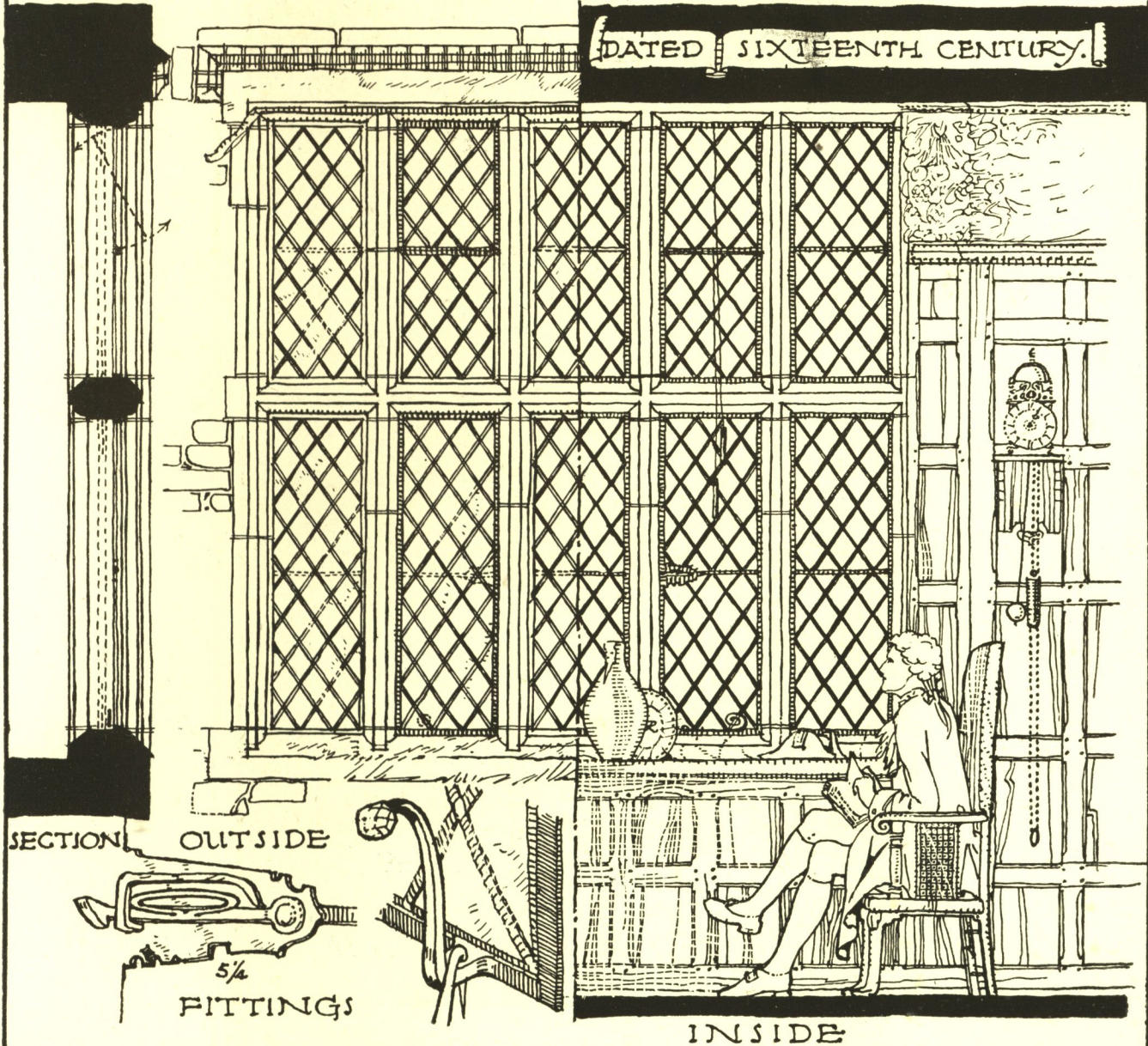
MANOR HOUSE.
W. BURTON.
SUSSEX ENGLAND.

·1·6·20·

MANOR HOUSE, W. BURTON

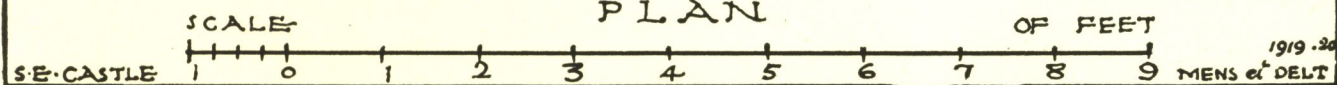
SUSSEX

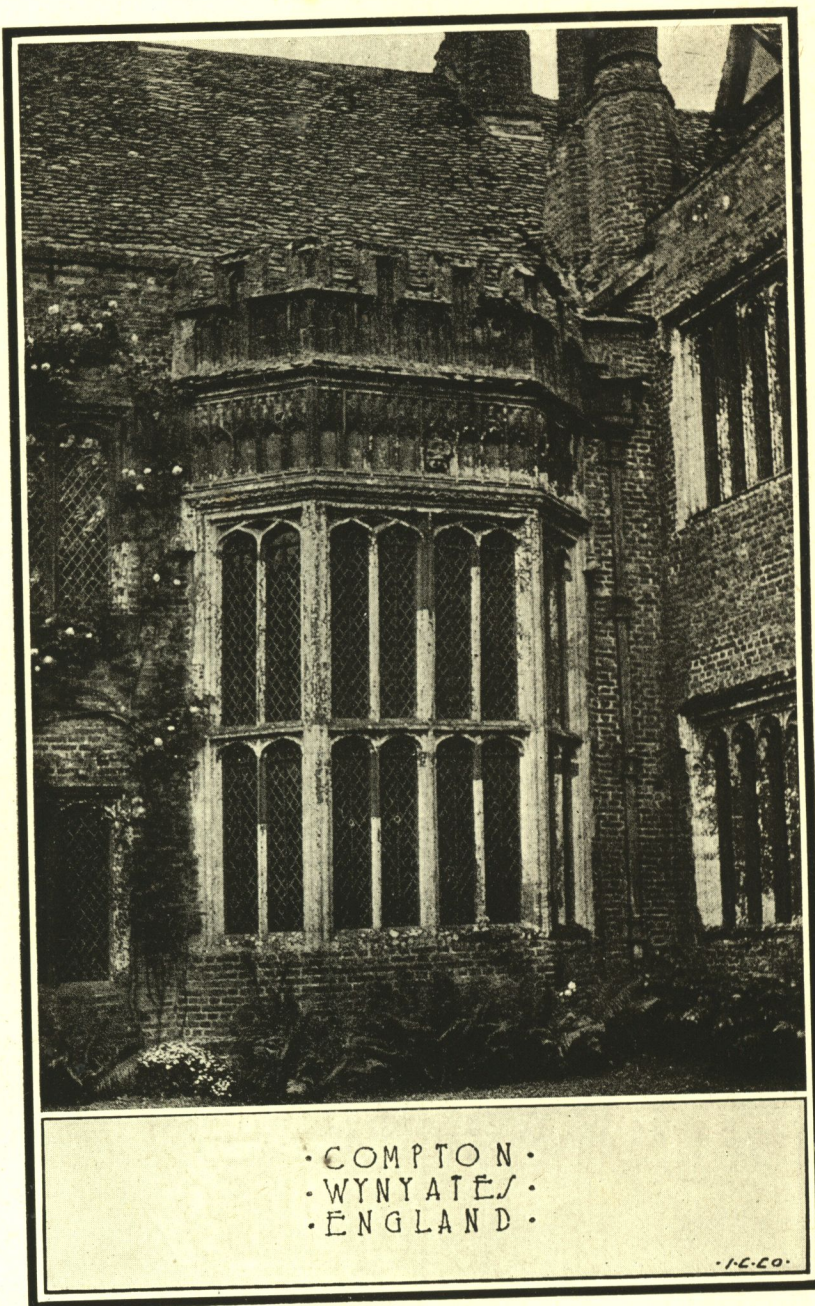
DATED SIXTEENTH CENTURY.



Size of
Casements
3'9 x 1'1/2
1'7 x 1'1/2

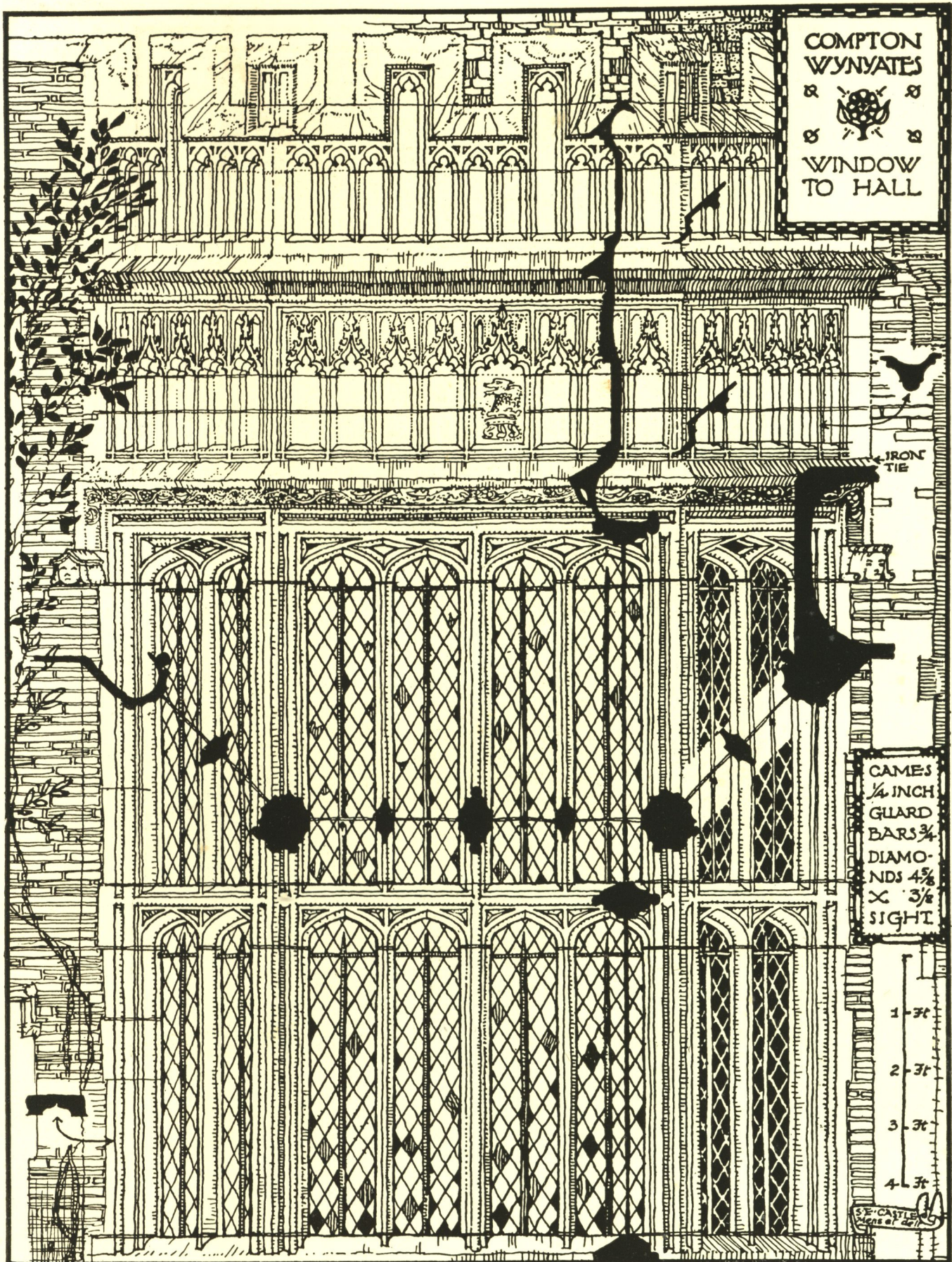
Position of original guard bars





• COMPTON •
• WYNYATES •
• ENGLAND •

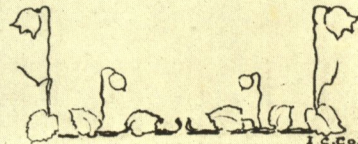
• 1-2-20 •

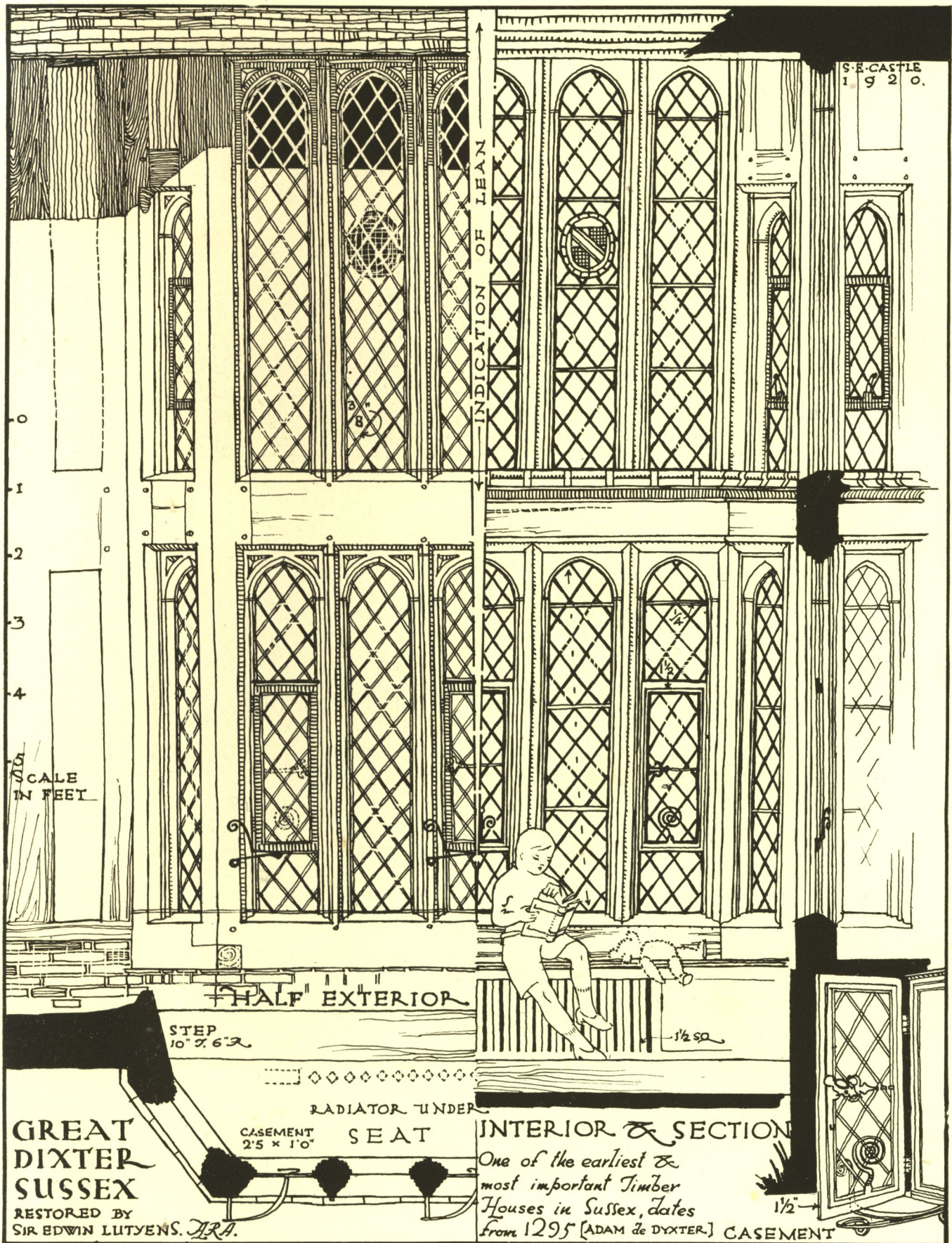


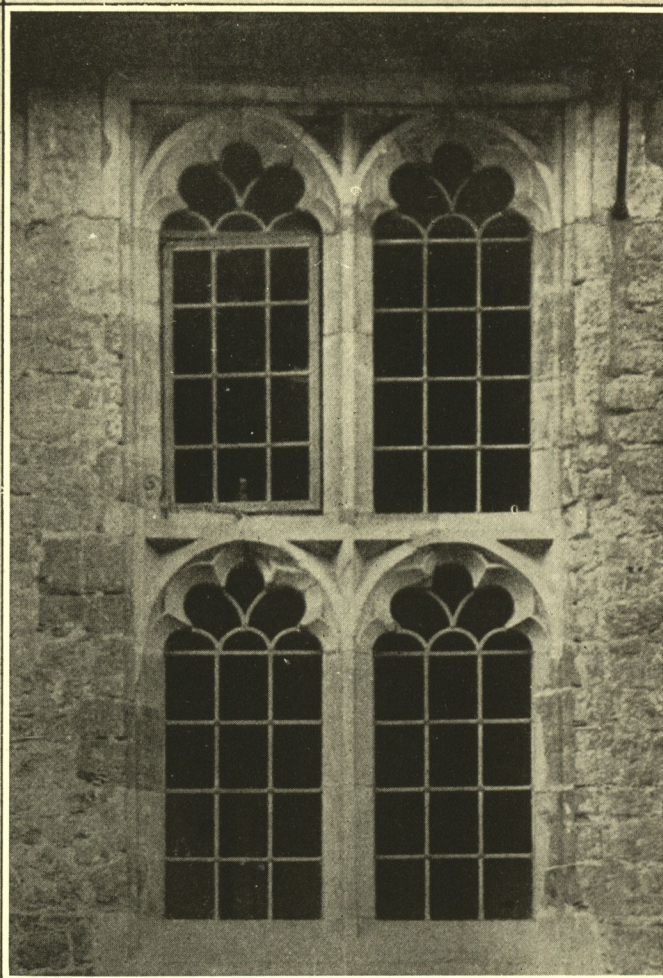
FOR GENERAL VIEW SEE PAGE 96.



• GREAT DIXTER •
RESTORED BY
• SIR E. L. LUTYENS •







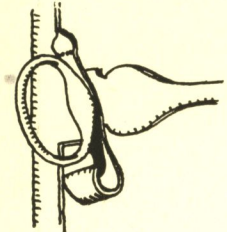
EASEBOURNE PRIORY
• MIDHURST SUSSEX •

RESTORED BY
• SIR ASTON WEBB P.R.A. •

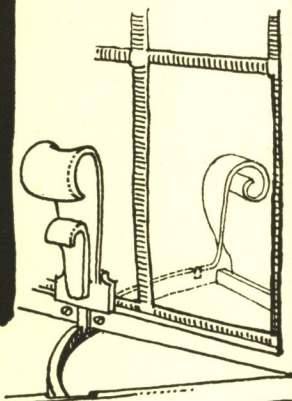


EASEBOURNE
PRIORY
SUSSEX
RESTORED BY SIR
ASTON WEBB, P.R.A.

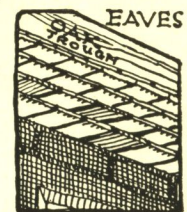
S.E. CASTLE. 1920.



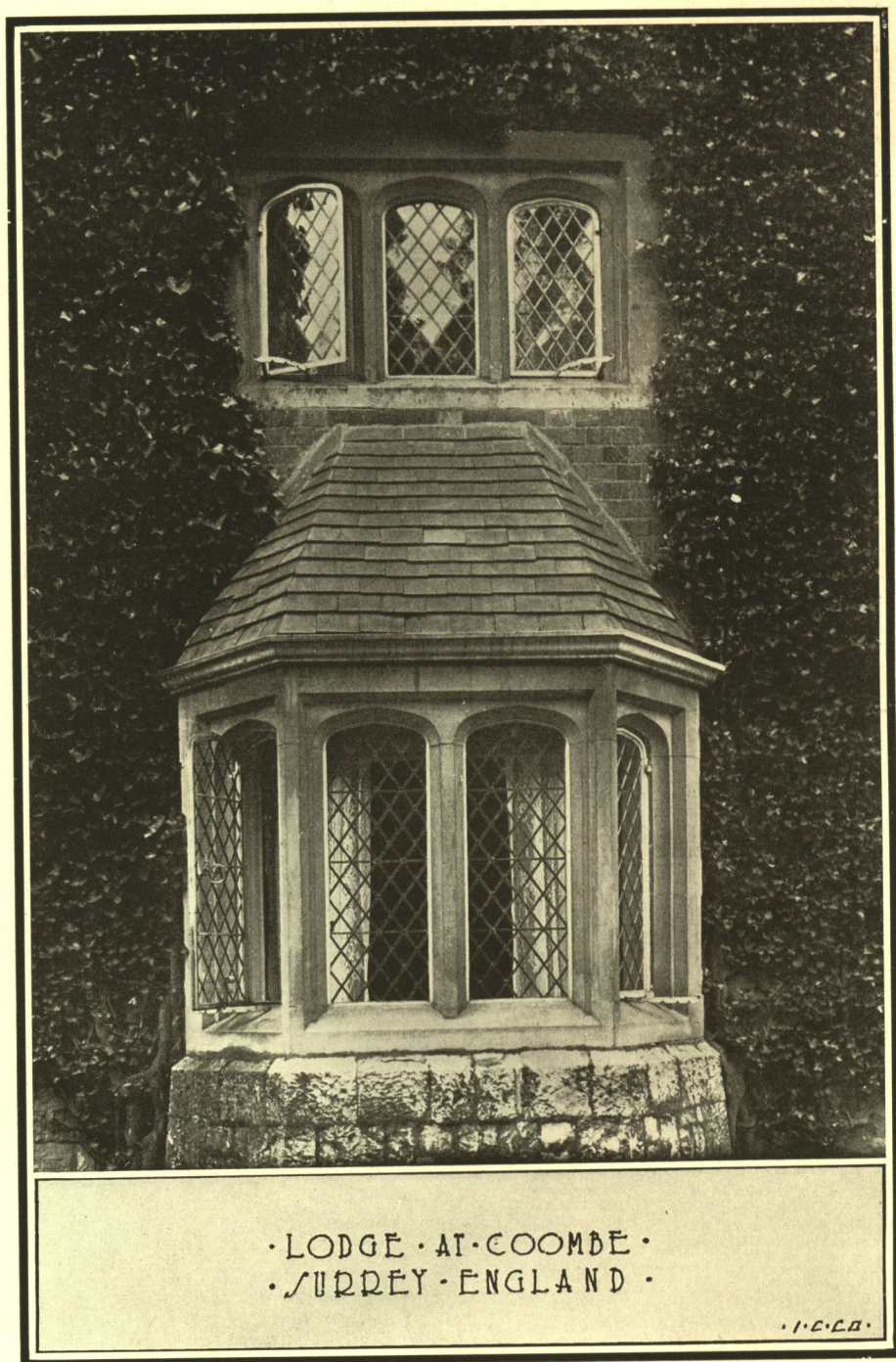
FITTINGS
MODERN



CASEMENT
1'7" x 2'9"
LEADS &
STAYS 1/2"



Formerly the
Nuns Priory
of the Nativity
of the Blessed Mary.
Dates from 16th Cen-
tury. This window
was discovered by
chance built in the
wall. Old parts are
shaded.



• LODGE • AT • COOMBE •
• SURREY • ENGLAND •

• J. C. C. •

LODGE, COOMBE. SURREY

NOTE
 CASES $\frac{3}{16}$ IN
 STAY-BARS $\frac{1}{2}$
 FIXED LIGHTS
 WITH METAL
 FRAMES AS
 CASEMENTS

SECTION
 First Floor

CASEMENT

CASEMENTS
 G^d 3'6" x 1'3½"
 1st 2'6" x 1'3½"
 Overall

OUTSIDE INSIDE

OPEN
 CASEMENT

SYDNEY E. CASTLE
 MENS ET DELT 1919

PLAN

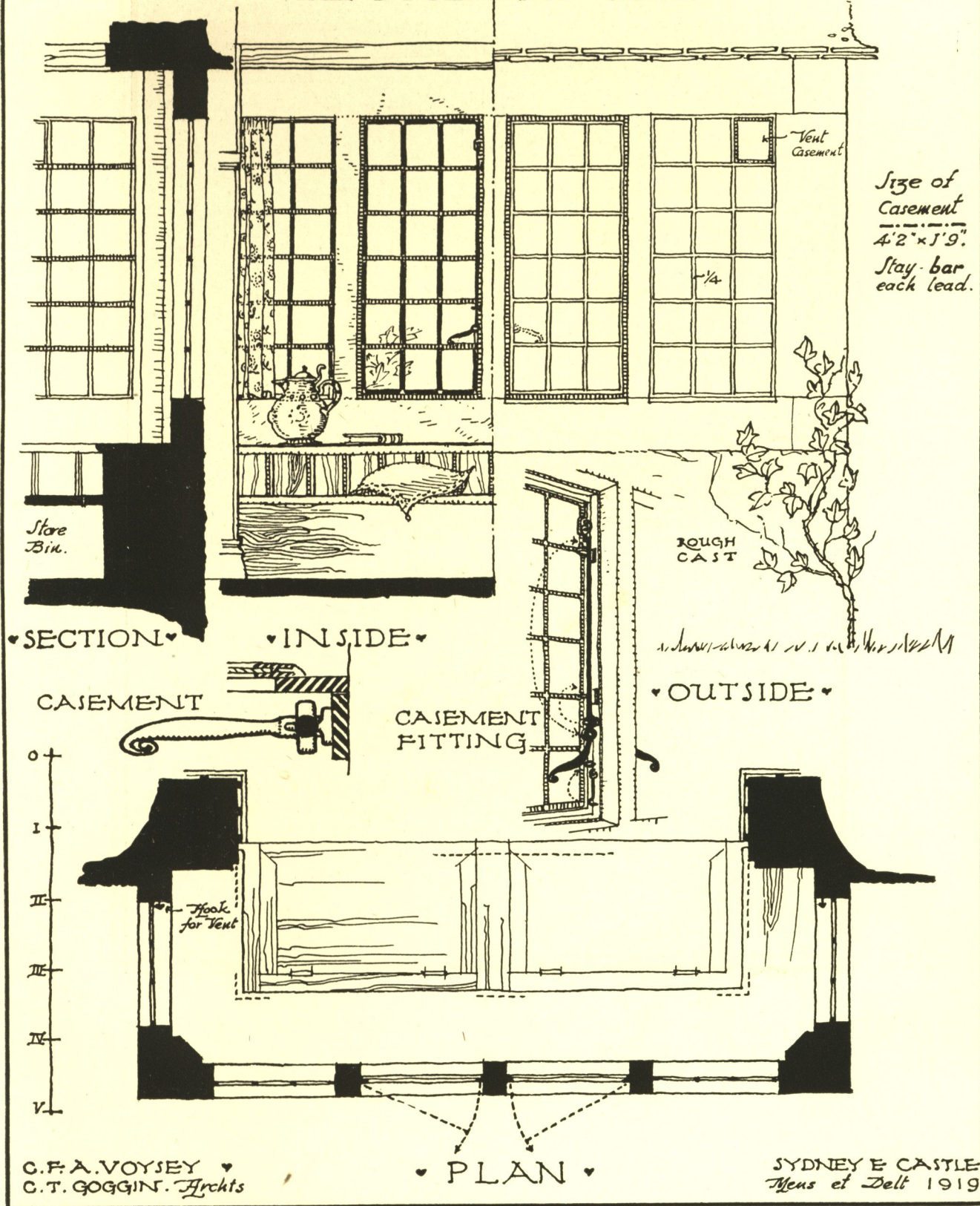
GEORGE DEVEY
 ARCHITECT

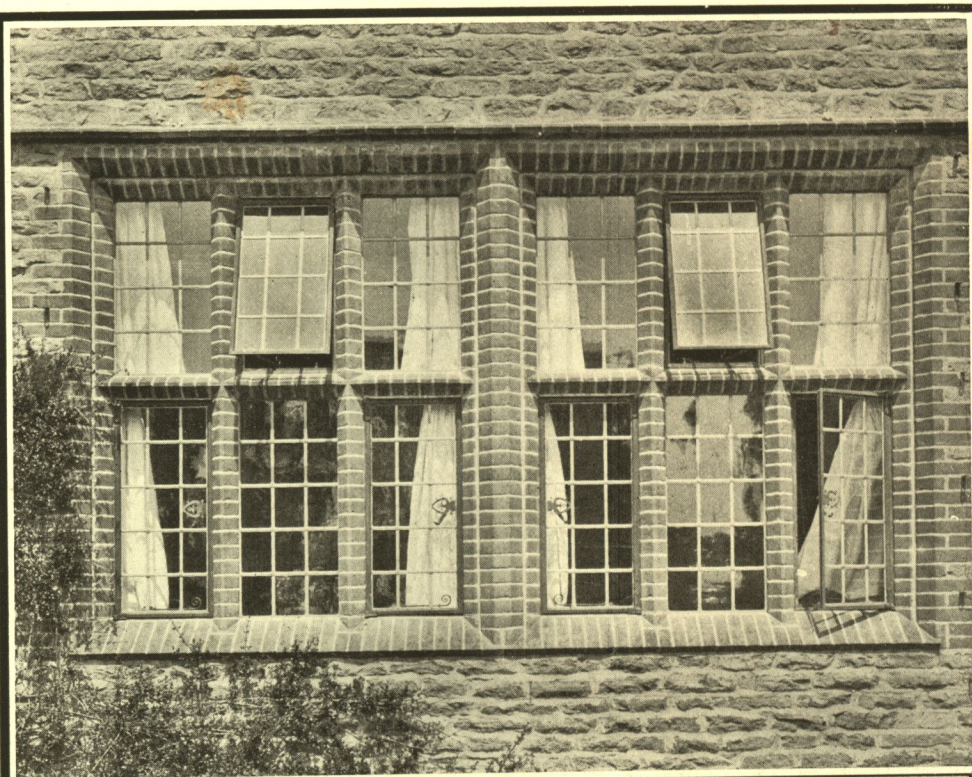


•THE •WHITE •COTTAGE •
•L O N D O N • S • W •
•C • F • A • V O Y S E Y • C • T • G O G G I N •
•A R C H I T E C T S •

• I . L . C O .

The White Cottage LONDON. S.W.

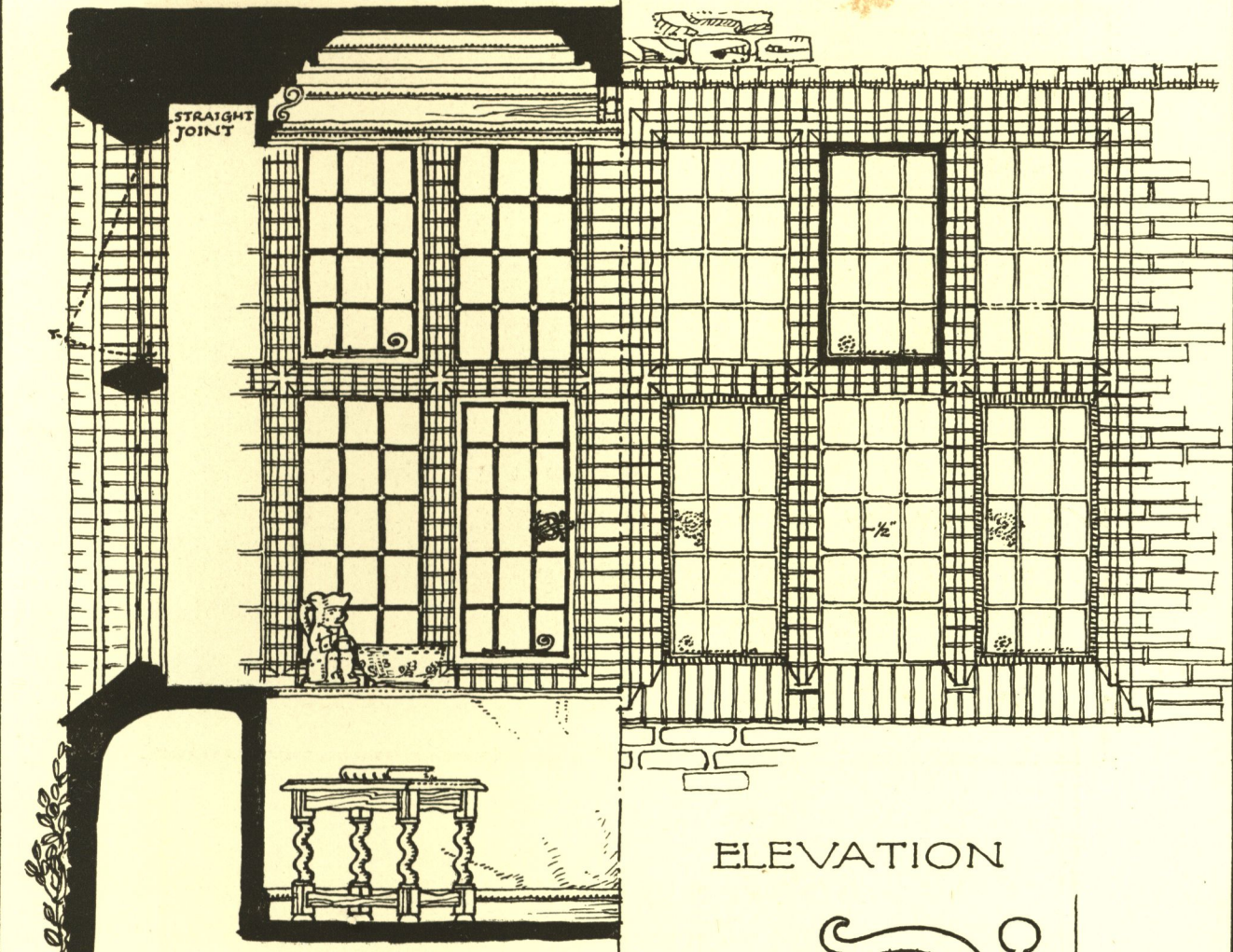




• TUESLEY • COURT •
• GODALMING • SURREY •
• E. GUY • DAWBER • F.R.I.B.A. •
• A R C H I T E C T •

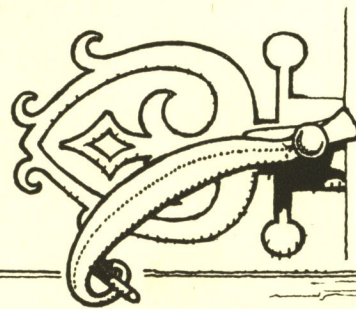
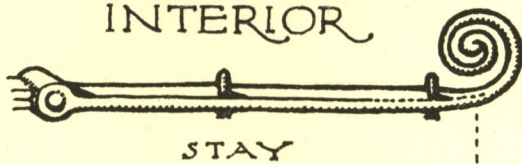
• J. C. CO. •

TUESLEY COURT. GODALMING. SURREY

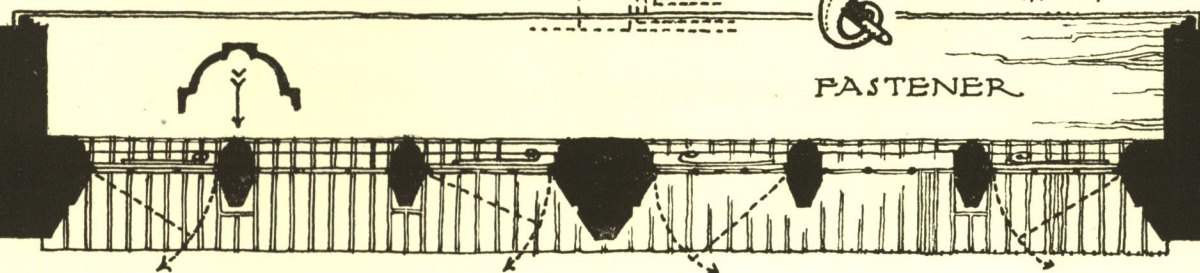


ELEVATION

INTERIOR



FASTENER

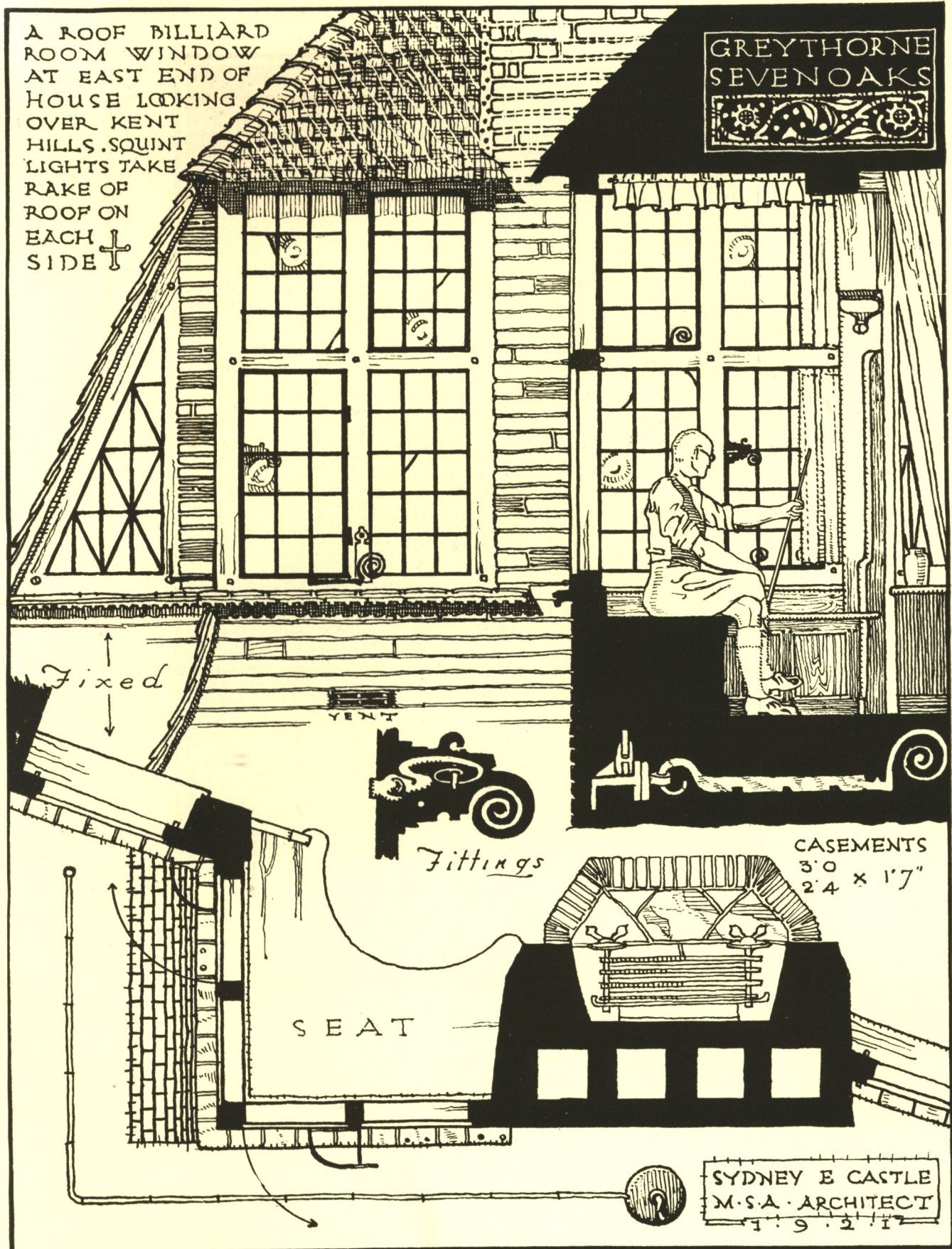


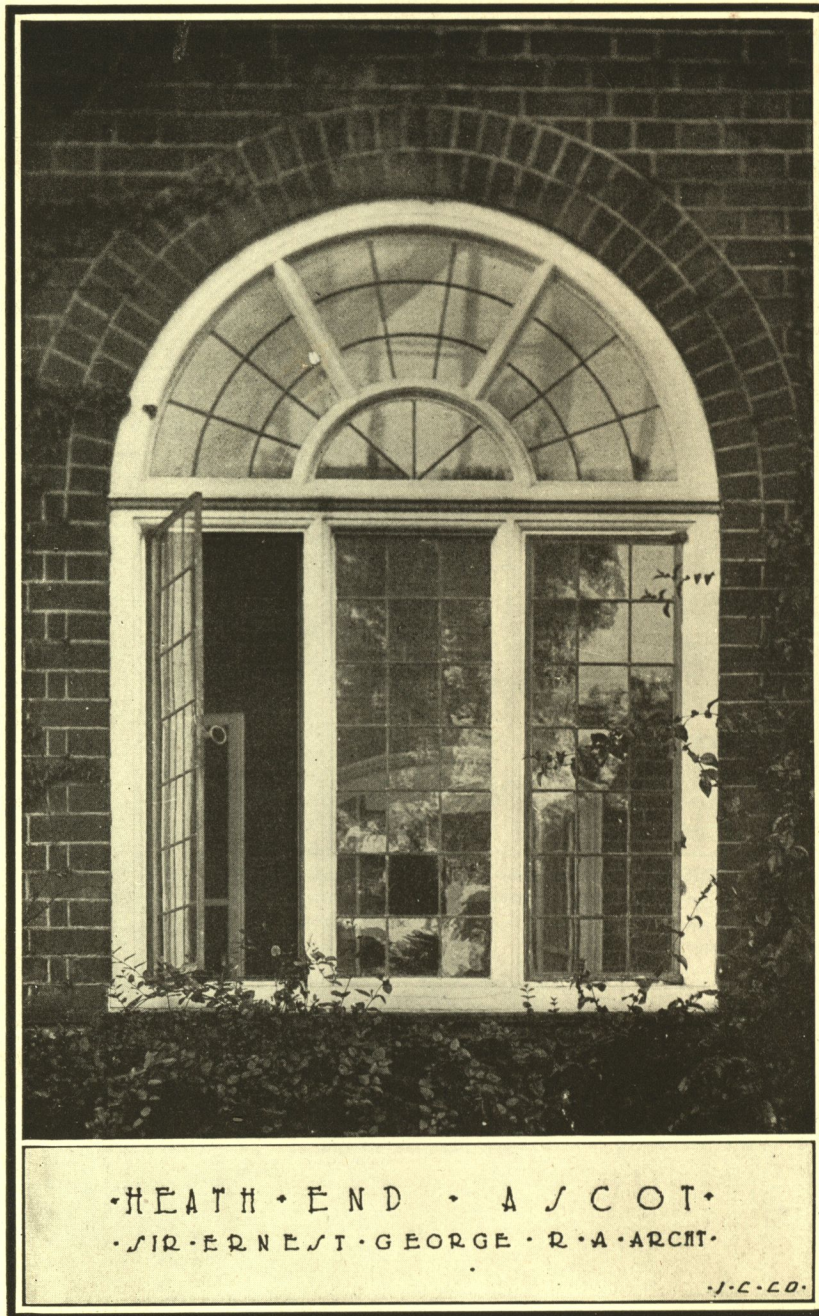
Scale of Feet. 0 1 2 3 4 5 PLAN Size of Casement 2' 11 1/2" x 1' 3 1/2"

E. GUY DAWBER F.R.I.B.A.
Architect

mens et delt 1919
SYDNEY E. CASTLE





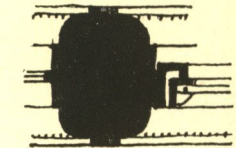


• HEATH • END • A S C O T •
• SIR • ERNEST • GEORGE • R • A • ARCHT •

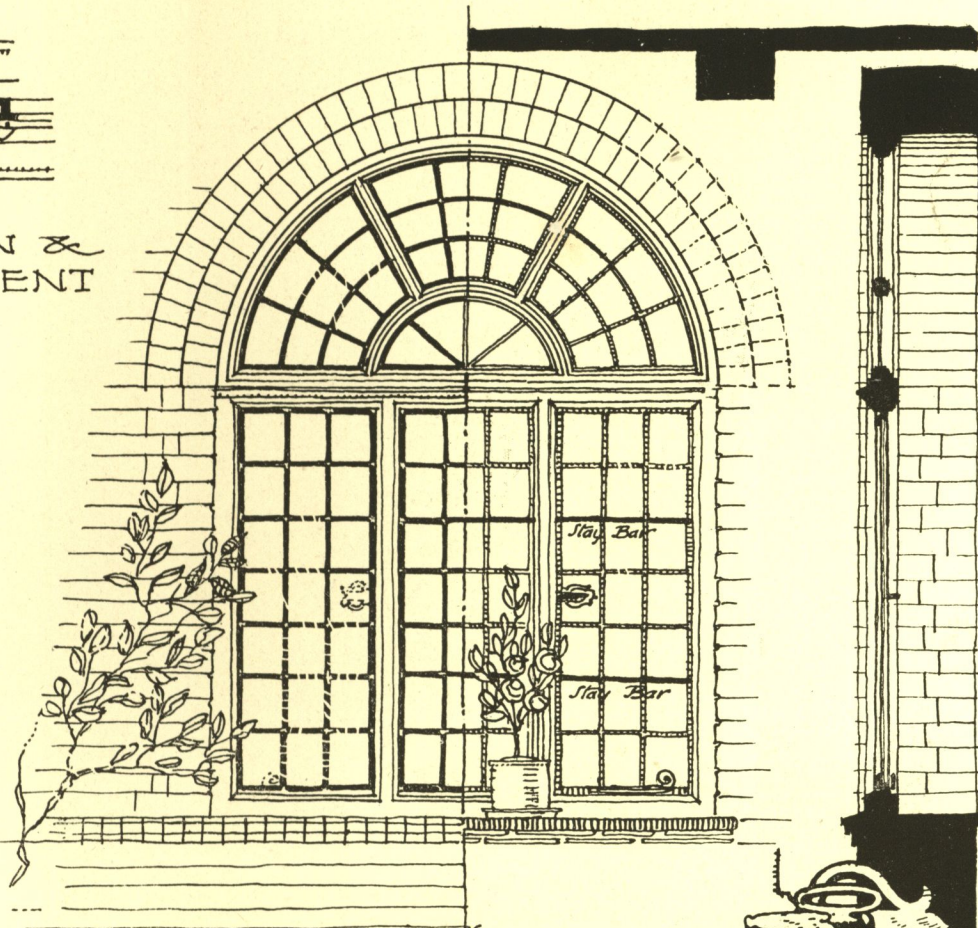
• J • C • C O •



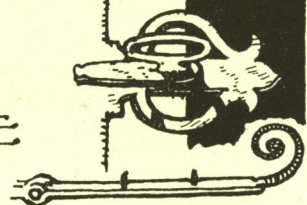
HEATH END ASCOT BERKS.



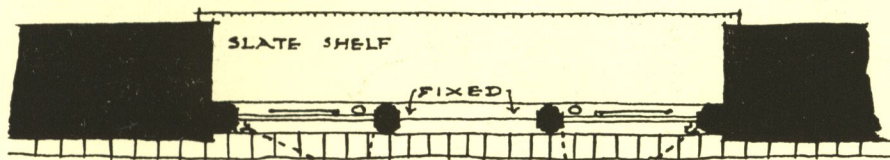
MULLION &
CASEMENT



OUTSIDE & INSIDE



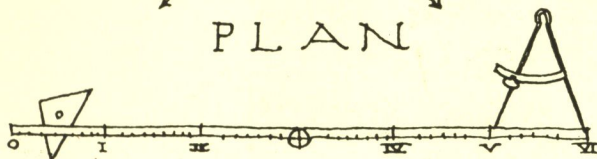
FITTINGS



PLAN

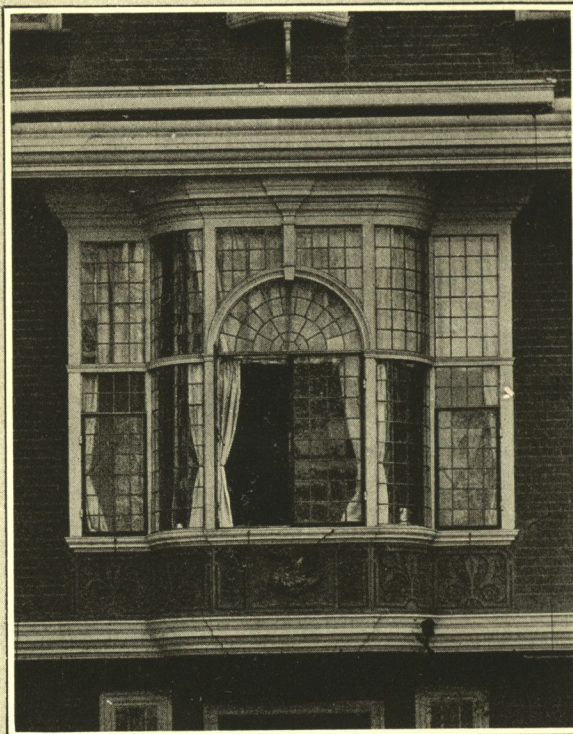
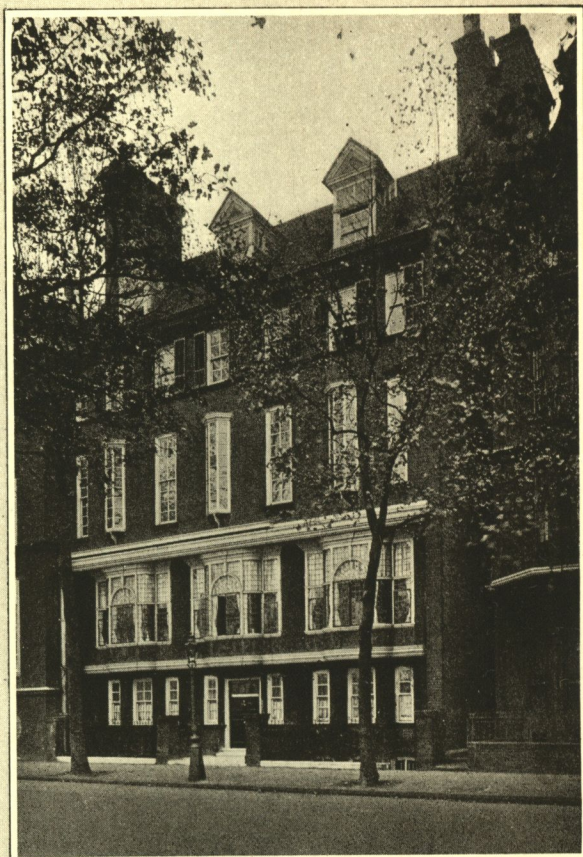
WINDOW
TO PLANT
HOUSE

CASEMENT
3' 11" x 1' 4"
Top all fixed
LEADS 1/4

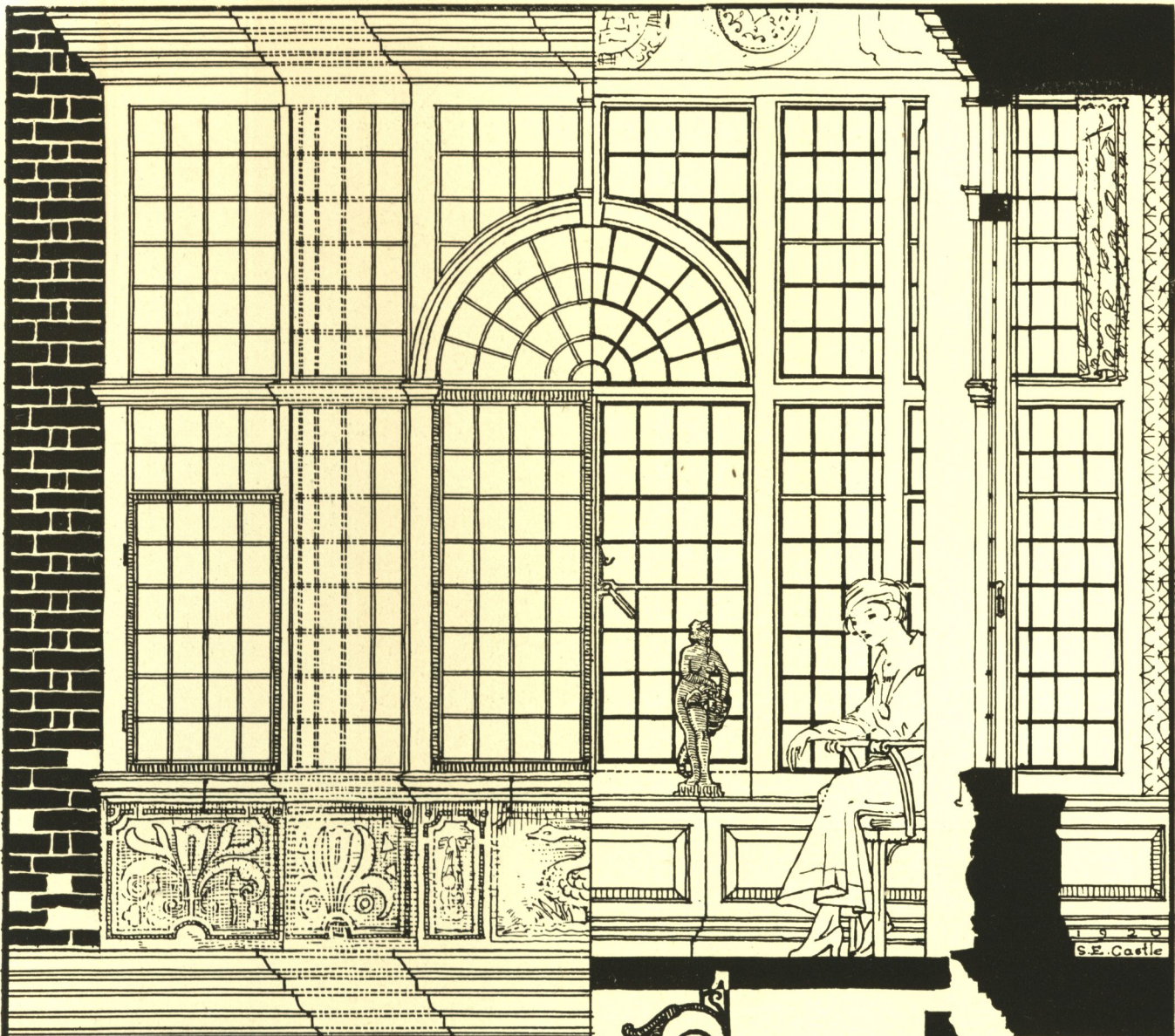


SIR ERNEST GEORGE
R.A. ARCHITECT

J. E. Castle.
Messrs of delt. 1919



OLD SWAN HOUSE
CHELSEA
R. NORMAN SHAW R.A.
ARCHITECT
HOUSE BUILT FOR
SIR EDWARD BURNE JONES



OUTSIDE

INSIDE

SECTION

Persian

CASEMENTS FLAT
4'4" x 1'11/2"

Old Swan
House
Chelsea

LEADS & BARS 1/2"
CENTRE BAR 7/8 x 1/4"

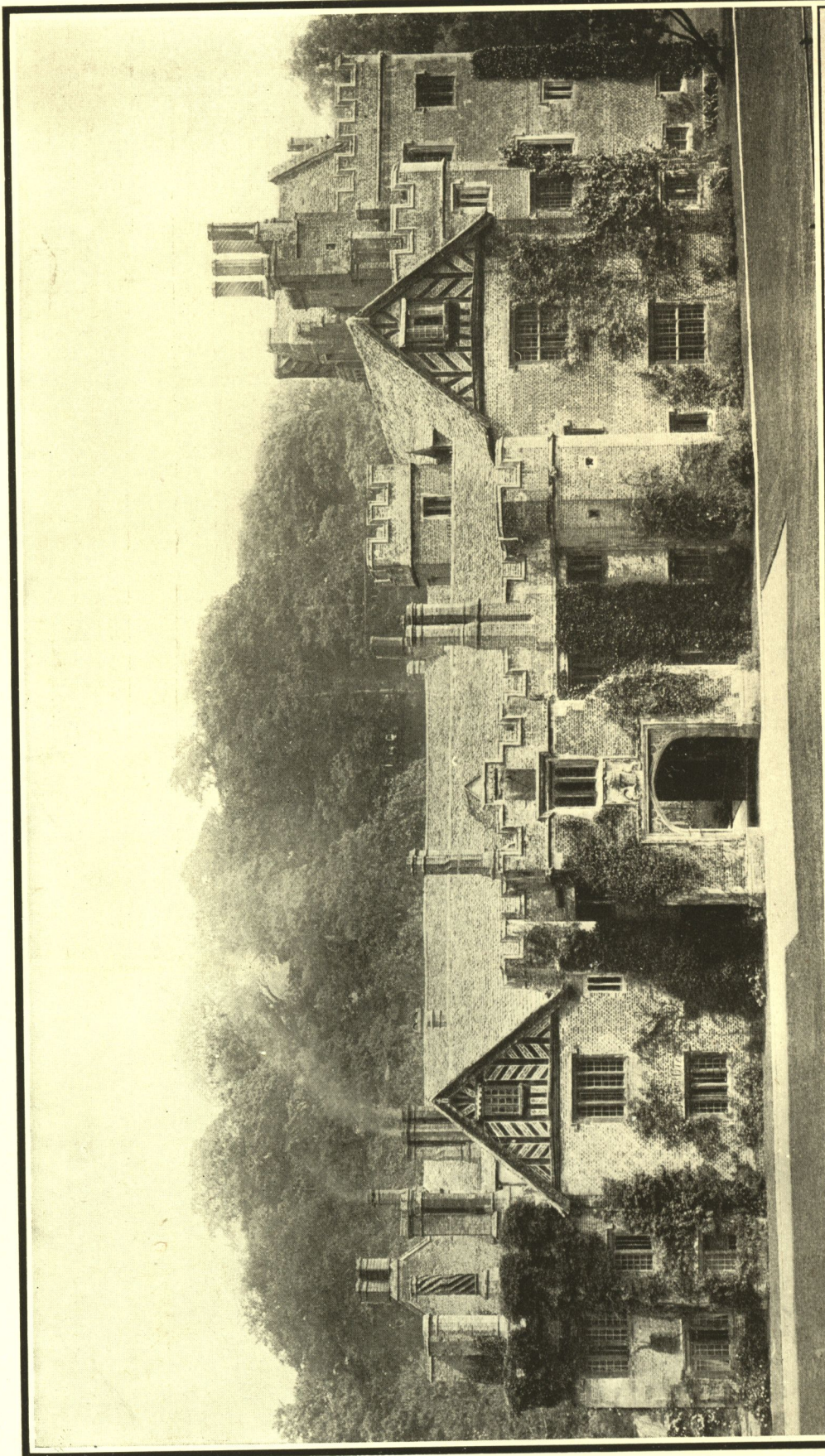
Tiling

R. NORMAN SHAW R.A.
ARCHITECT

PLAN

INTERIORS BY WILLIAM
MORRIS & BURNES-JONES

0 Feet 1 2 3 4 5 Feet 6



• COMPTON • WYNATES • • WARWICKSHIRE • • ENGLAND •

1. C. C. D.



+ RESIDENCE + + + CHICHESTER +
+ SIR CHRISTOPHER WREN + + ARCHITECT +
NOW BEING USED AS COUNTY HALL.

I.C.Co



• LODGE • AT • COOMBE •
• SURREY • ENGLAND •

• I. C. CO. •



• GENERAL VIEW TO GARDENS •
• TUESLEY COURT •
• GODALMING SURREY •
• E N G L A N D •
• E GUY DAWBER F R I B A ARCHITECT •

• I . C . C O . •



•THE •WHITE •COTTAGE•

•L O N D O N • S • W •

•C • F • A • V O Y S E Y • C • T • G O G G I N •

•A R C H I T E C T S •

1-6-60



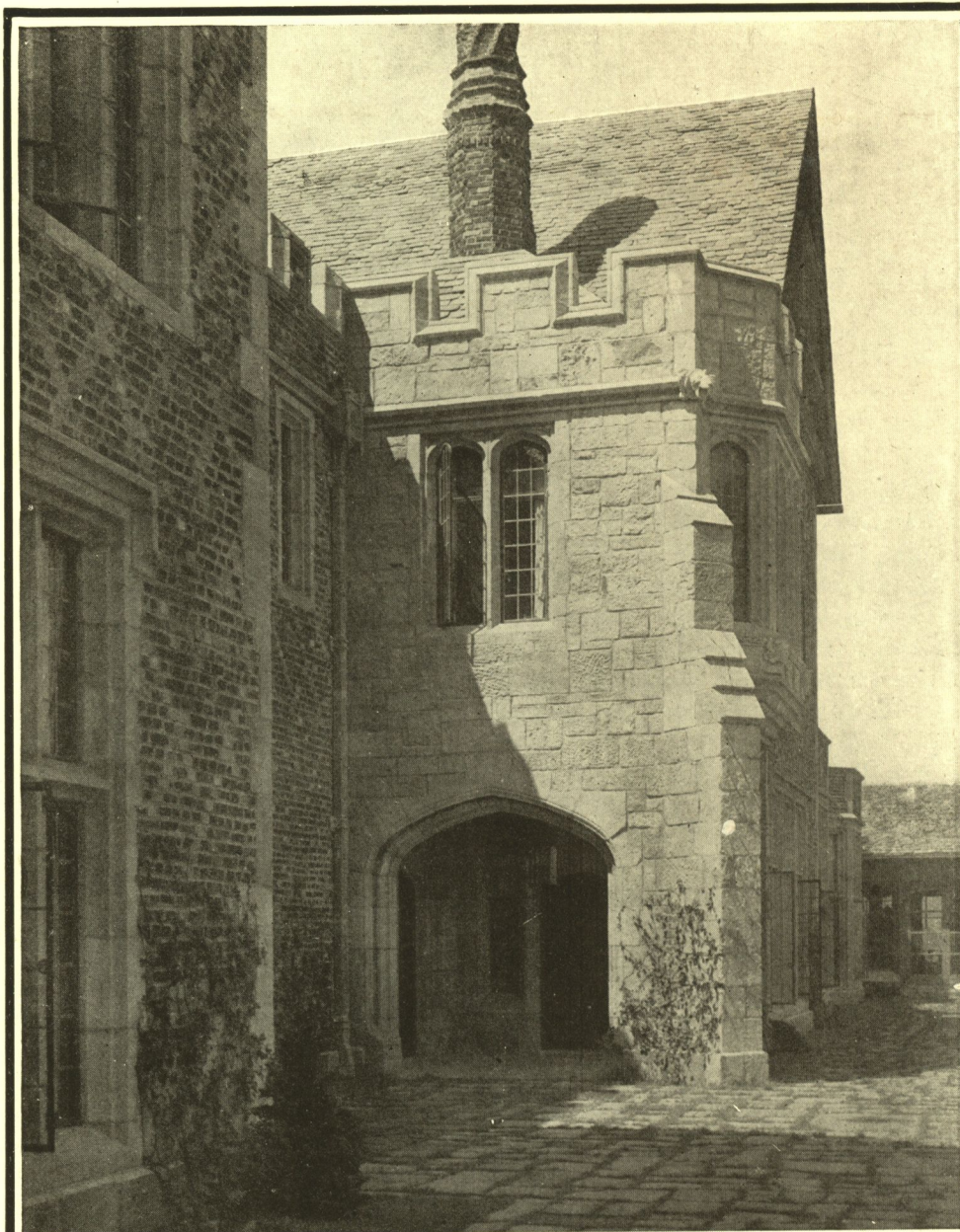
FRANK BETHUNE

•VIEW•TO•GARDENS•
•HEATH•END•ASCOT•
•BERKSHIRE•ENG•
•SIR•ERNEST•GEORGE•R•A•
•A R C H I T E C T•

•J•C•CO•

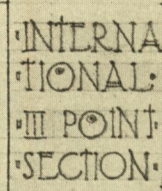
PHOTOGRAPHS AND MEASURED DRAWINGS OF AMERICAN RESIDENCES EQUIPPED WITH INTERNATIONAL CASEMENTS

RESIDENCE	ARCHITECT
STUART DUNCAN, Newport, R. I.....	JOHN RUSSELL POPE
CHARLES H. SABIN, Southampton, L. I.....	CROSS & CROSS
PHILLIP W. HENRY, Scarborough, N. Y.....	BERTRAM G. GOODHUE
RESIDENCE, Laverock, Pa.....	CHARLES A. PLATT
W. D. PACKARD, Chautauqua, N. Y.....	WARREN & WETMORE
E. L. FORD, Grosse Pointe, Mich.....	McCLURE & SPAHR
WALTER M. JEFFORDS, Gradyville, Pa.....	WILSON EYRE & McILVAINE
ALAN LEHMAN, Tarrytown, N. Y.....	JOHN RUSSELL POPE
S. O. MERRIMAN, Jamestown, N. Y.....	JOHNSON & FORD
ISAAC GUGGENHEIM, Port Washington, L. I.....	H. VAN BUREN MAGONIGLE
CHESTER A. CONGDON, North Yakima, Wash.....	KENYON & MAINE
MRS. W. McNAIR, New York City.....	H. VAN BUREN MAGONIGLE
GEORGE F. ARMSTRONG, Savannah, Ga.....	HENRIK WALLIN
H. A. LOGAN, Warren, Pa.....	ALBERT J. BODKER
J. B. FREY, Rochester, N. Y.....	J. B. ARNOLD
CHARLES C. CHAMBERS, Fieldston, N. Y.....	JULIUS GREGORY
CHRISTIAN DE GUIGNE, JR., San Mateo, Cal.....	BLIES & FAVILLE
DR. W. A. PUSEY, Chicago, Ill.....	PERKINS, FELLOWS & HAMILTON
PHILLIP BURNETT, Wilmington, Del.....	BROWN & WHITESIDE
RESIDENCE, Greenwich, Conn.....	WM. F. DOMINICK
CHARLES H. SCHWEPPE, Lake Forest, Ill.....	FREDERICK W. PERKINS



• RESIDENCE OF STEWART DUNCAN ESQ. •
• NEWPORT • R • I •
• JOHN RUSSEL POPE • ARCHITECT •

• I. C. C. •

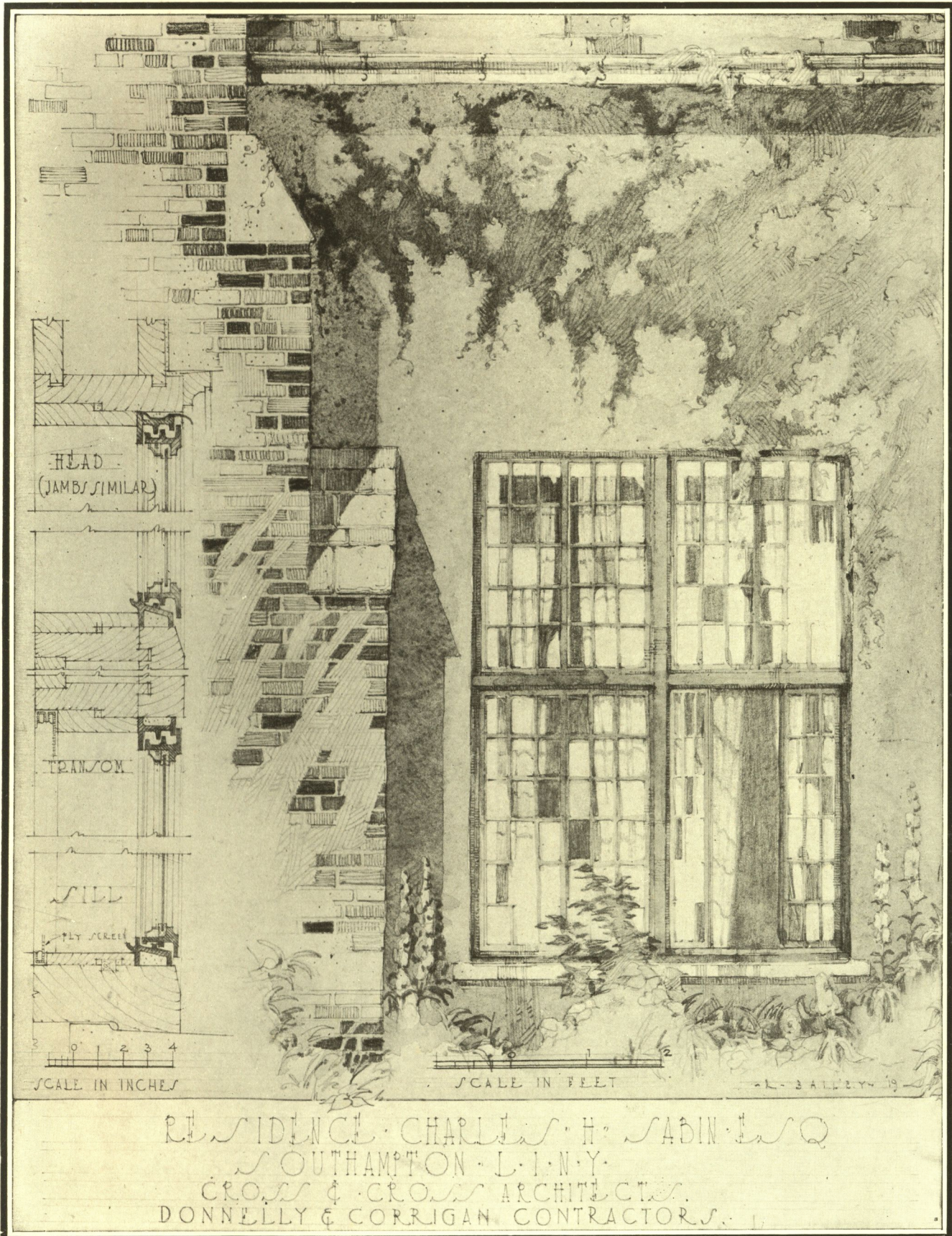


• FOR . F . S . D . SEE . MEDIUM SECTION PAGE 12

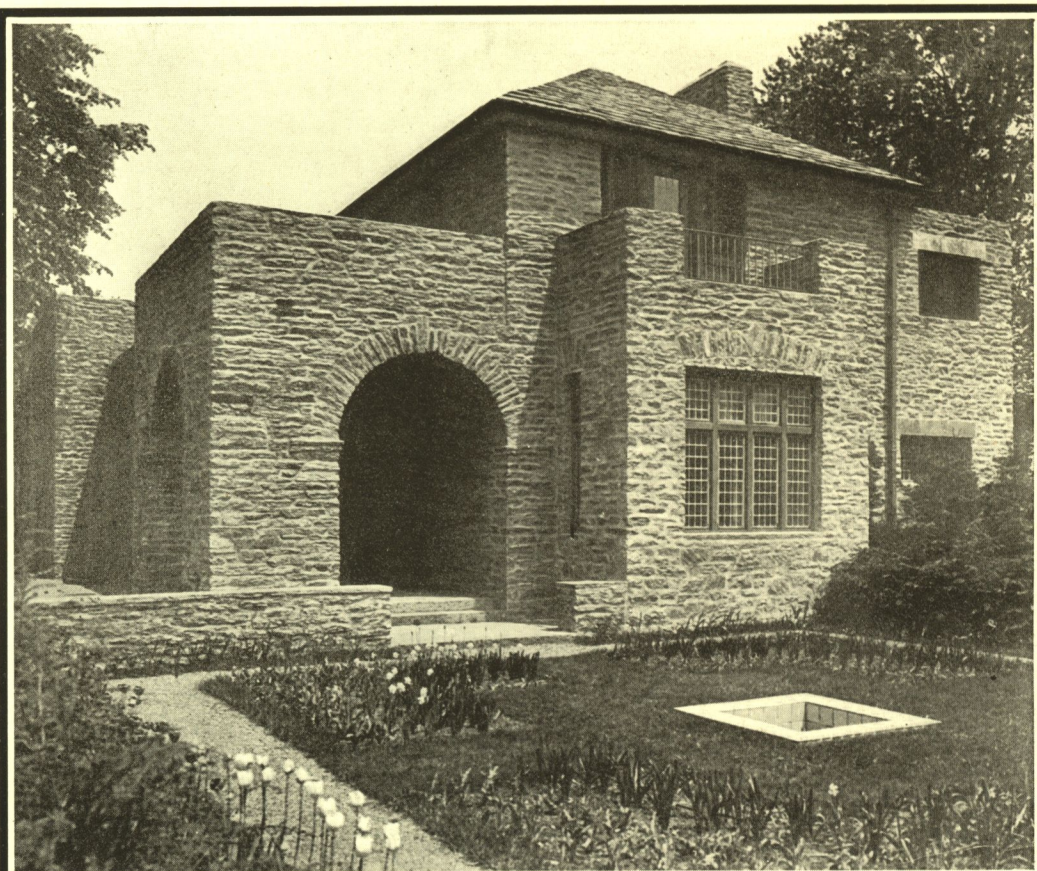


• RESIDENCE OF CHAS. H. SABIN, ESQ. •
• SOUTHAMPTON • LONG ISLAND •
• CROSS & CROSS ARCHITECTS •

J. C. CO.

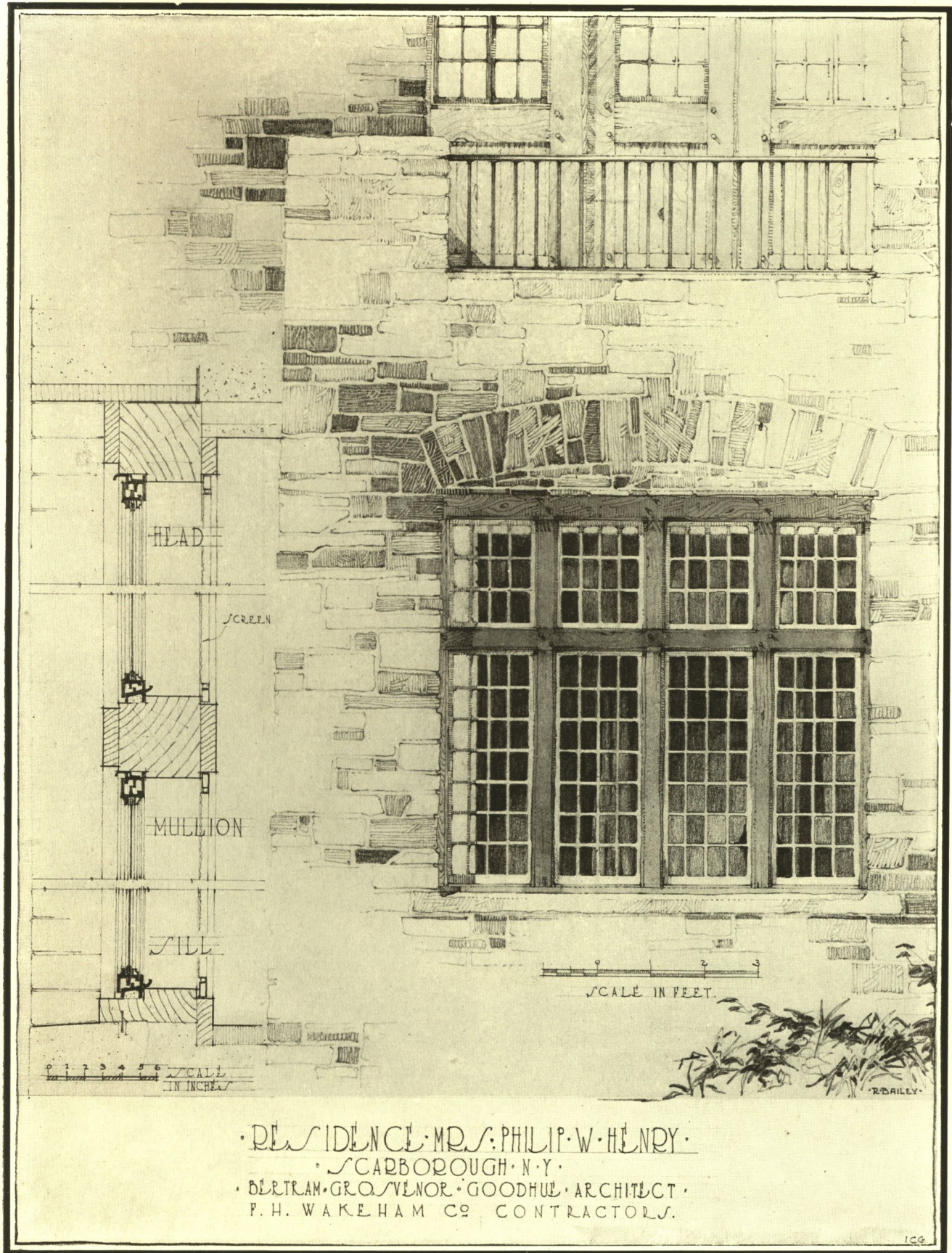


FOR GENERAL VIEW SEE PAGE 133.



RESIDENCE OF P. W. HENRY, ESQ.
CARBOROUGH, NEW YORK.
BERTRAM G. GOODRUE, ARCHITECT.

J. C. CO.



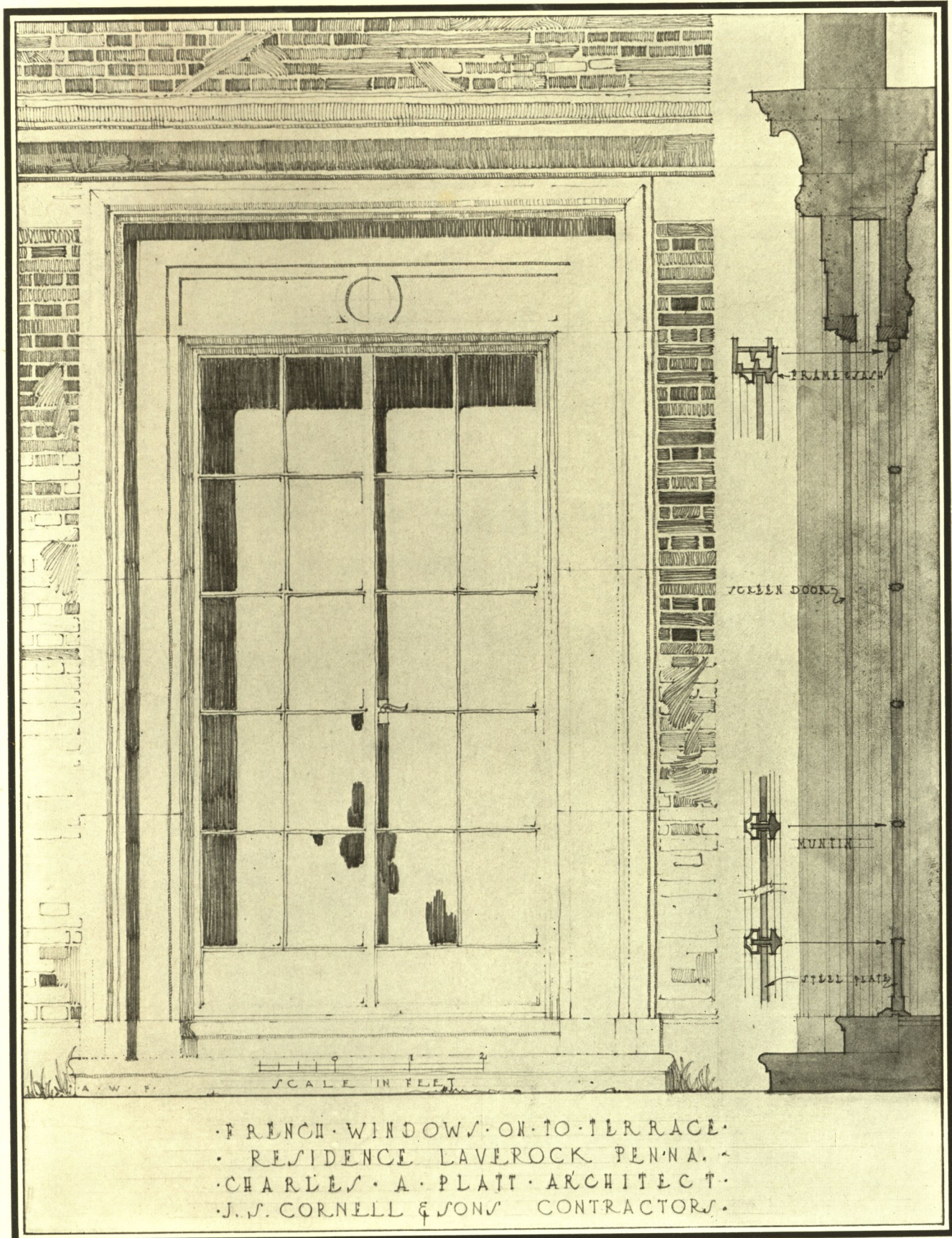
FOR GENERAL VIEW SEE PAGE 134.



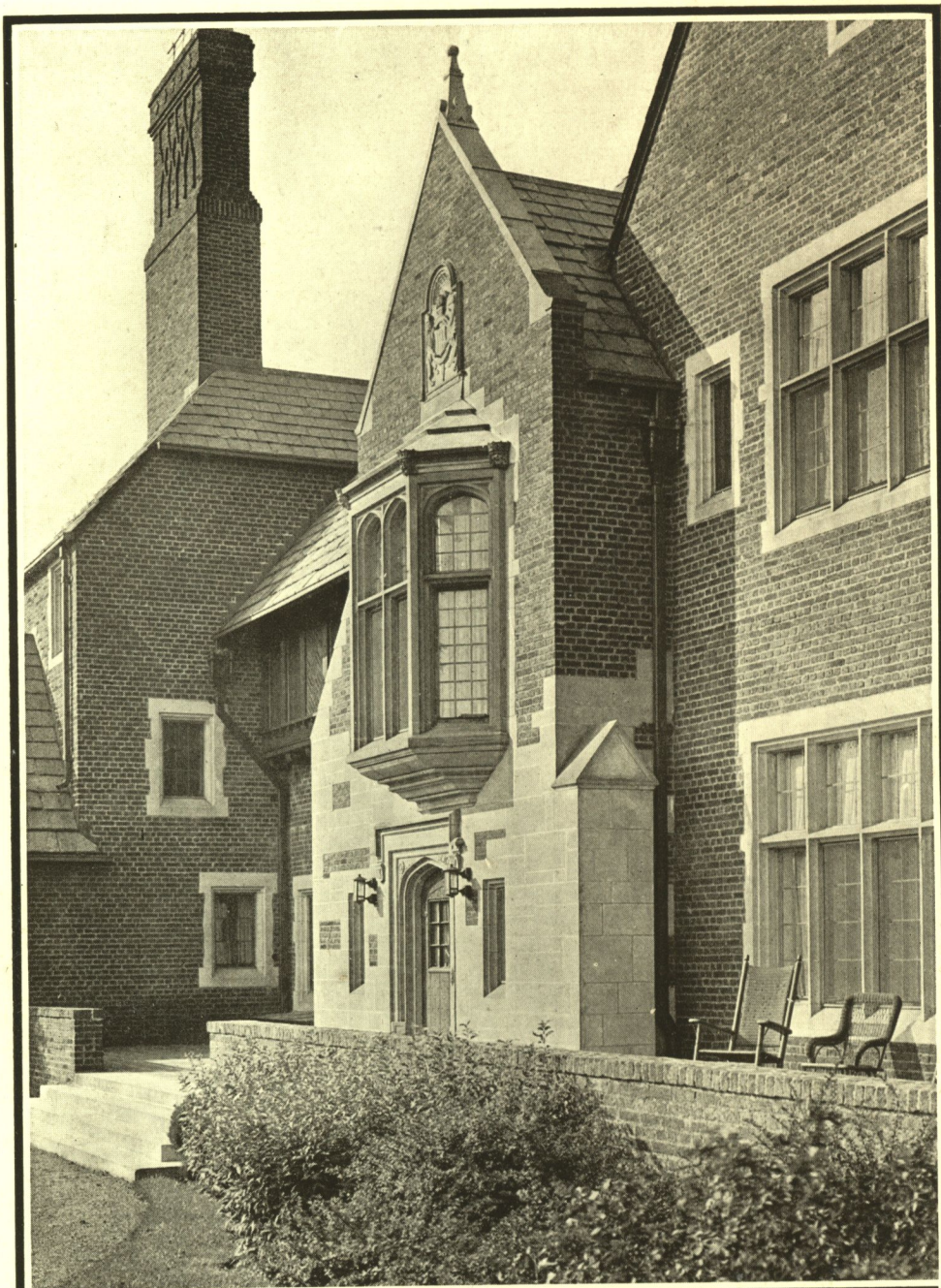
RESIDENCE

• LAVEROCK • • PENNA •
• CHARLES A PLATT ARCHITECT •
• J. S. CORNELL & SON • CONTRACTORS •

• I.C.Co. •

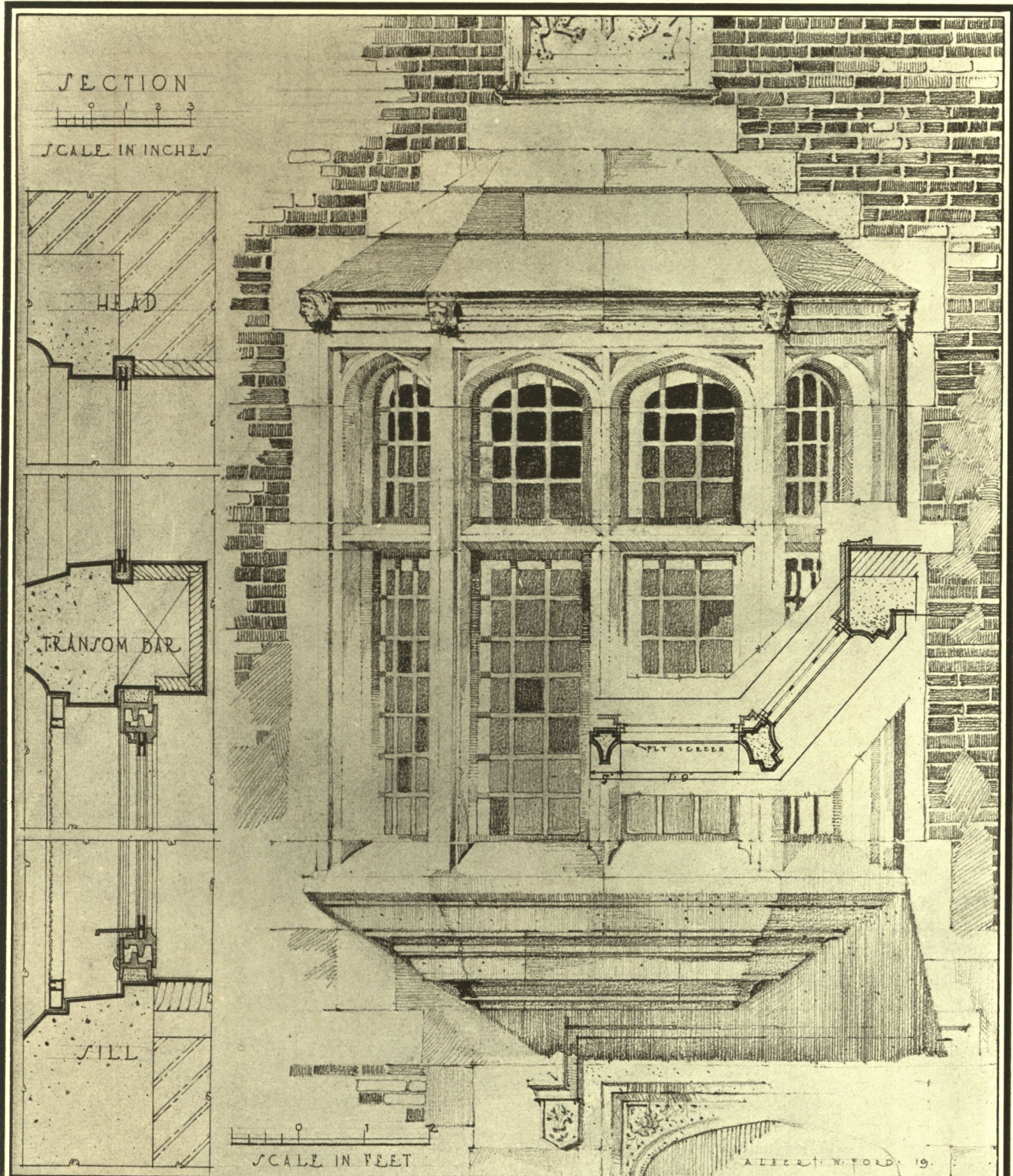


FOR GENERAL VIEW SEE PAGE 142.



• RESIDENCE OF W. D. PACKARD, ESQ. •
• CHAUTAUQUA • NEW YORK •
• WARREN & WETMORE • ARCHITECTS •

• J. C. C. •

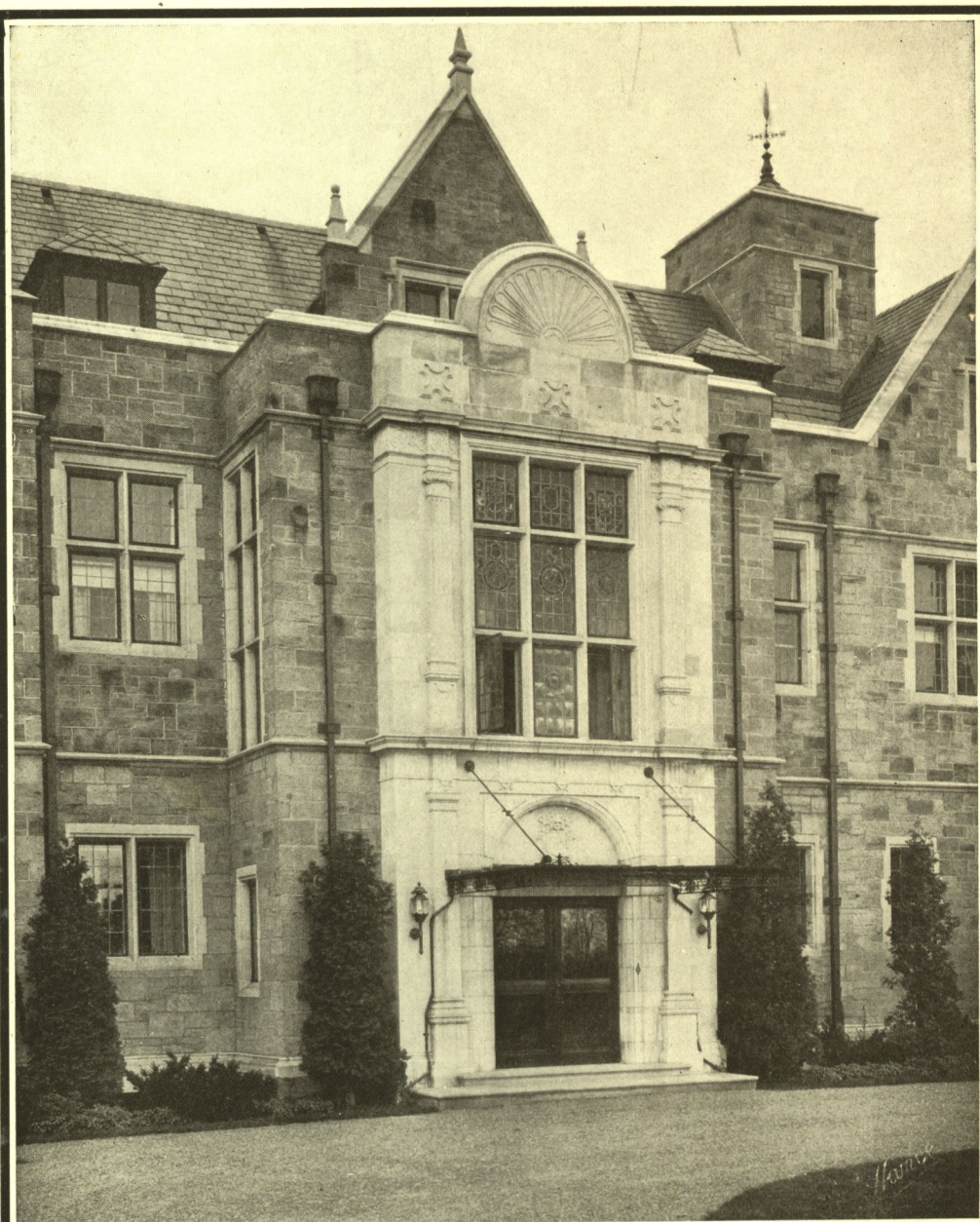


SCALE DETAIL OF BAY OVER MAIN ENTRANCE

RESIDENCE W. D. PACKARD ESQ. CHAUTAUQUA N. Y.

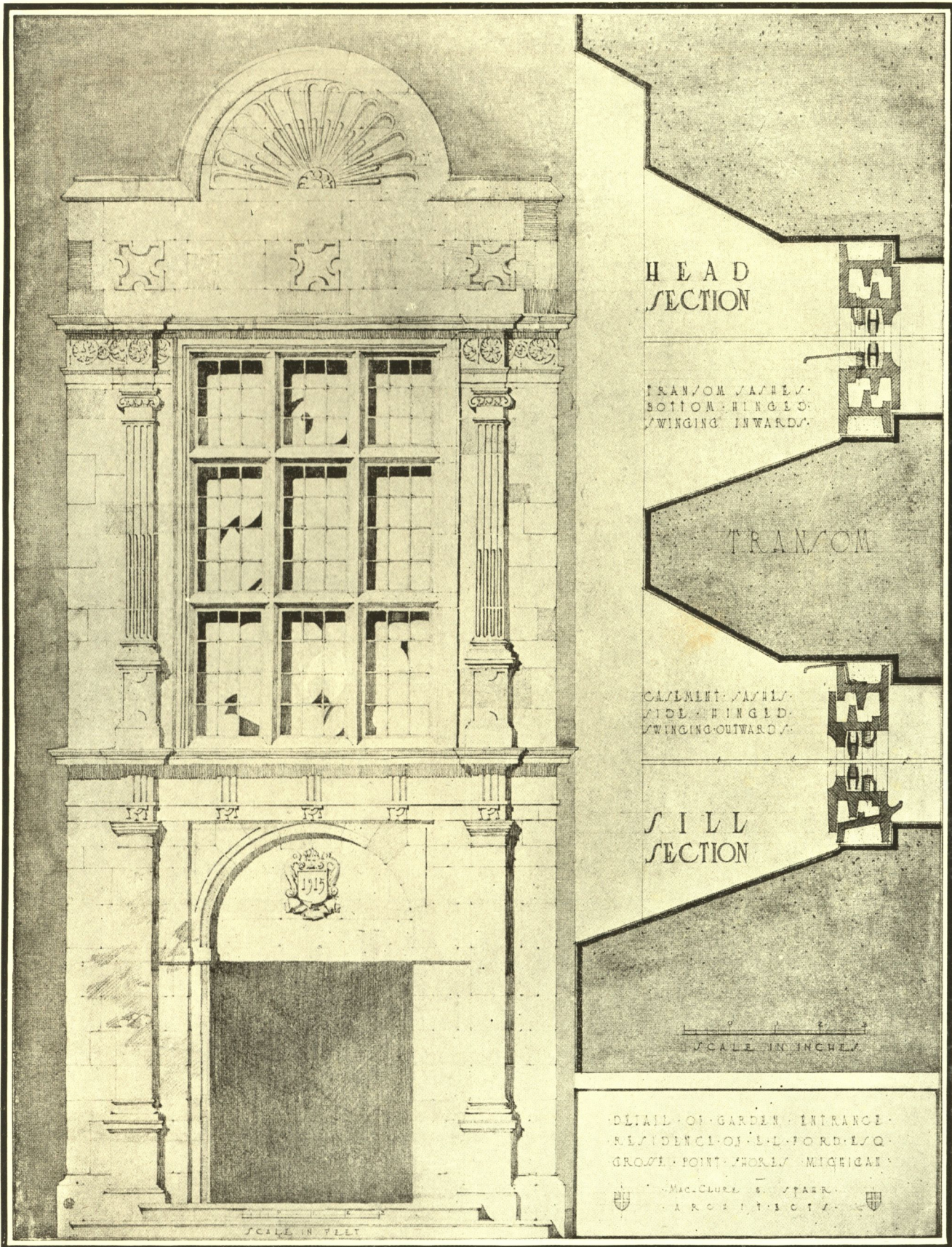
WARREN & WELLS ARCHITECTS

CHARLES C. HAAS CONTRACTOR



RESIDENCE OF E. L. FORD ESQ
GROSSE POINTE DETROIT MICH.
ALBERT H. SPAHR ARCHITECT

I.C.CO.

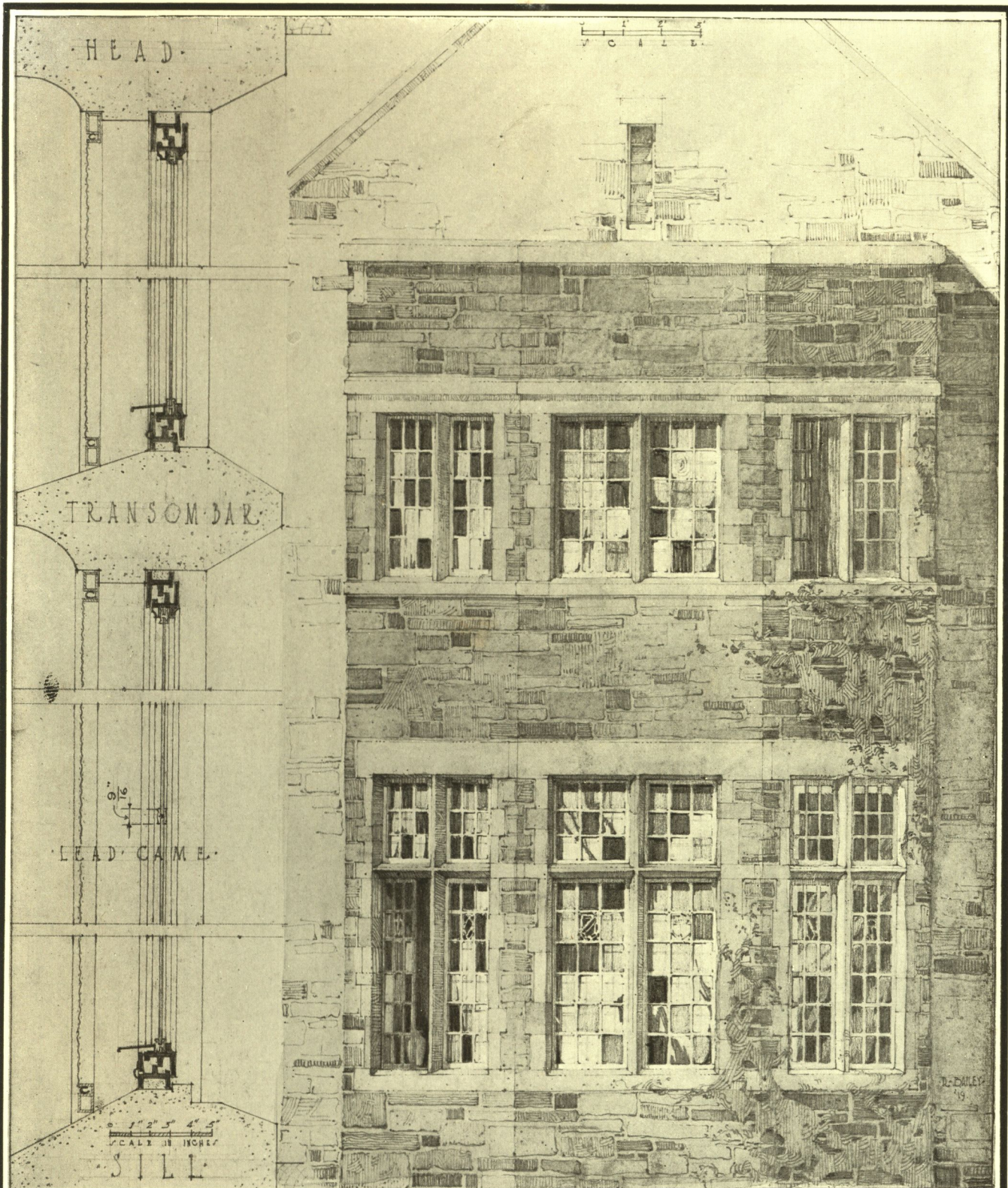


FOR GENERAL VIEW SEE PAGE 141.



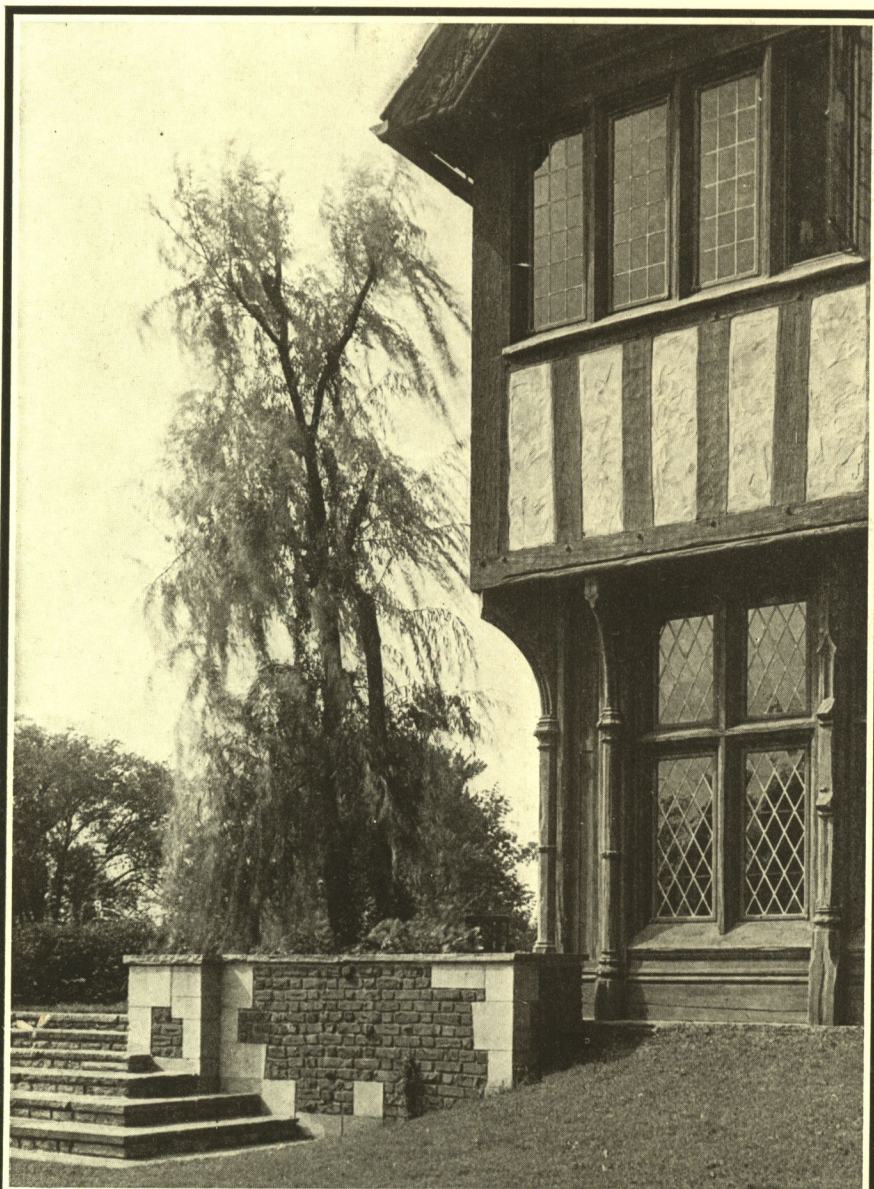
• RESIDENCE OF W. M. JEFFORDS ESQ
 • GRADYVILLE • • • • PENNA •
 • WILSON EYRE & McILVAINE : ARCHITECTS :
 • R. C. BALLINGER & CO. CONTRACTORS.

I.C. Co.



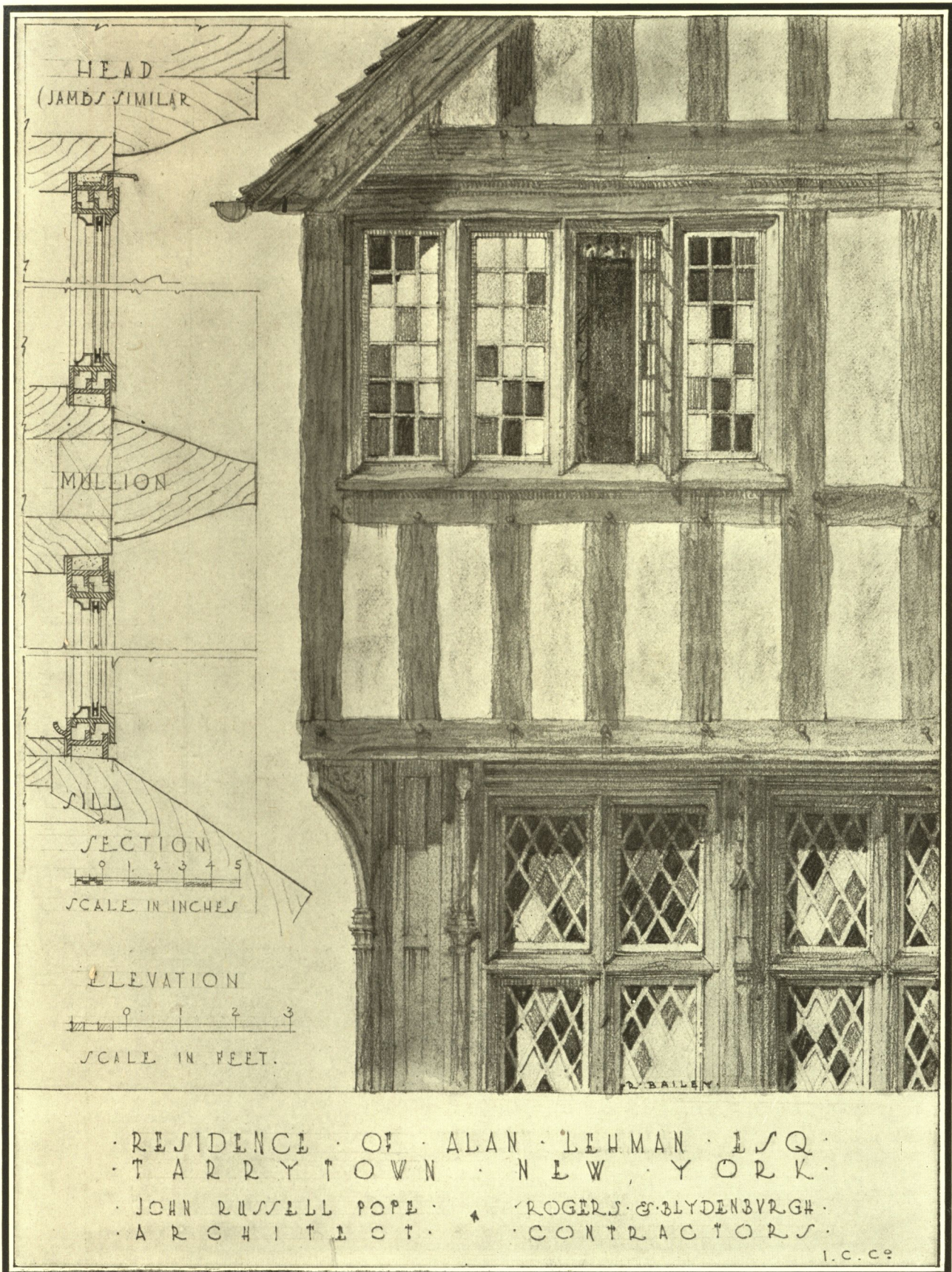
WALTER M. JEFFORDS RESIDENCE
GRADYVILLE PENNSYLVANIA
WILSON EYRE & McILVAINE ARCHITECTS
R. C. DALLINGER CONTRACTORS

109-B



RESIDENCE OF ALAN LEHMAN ESQ.
TARRYTOWN JOHN R. POPE
NEW YORK ARCHITECT.

I.C.C.



FOR GENERAL VIEW SEE PAGES 138 AND 139.

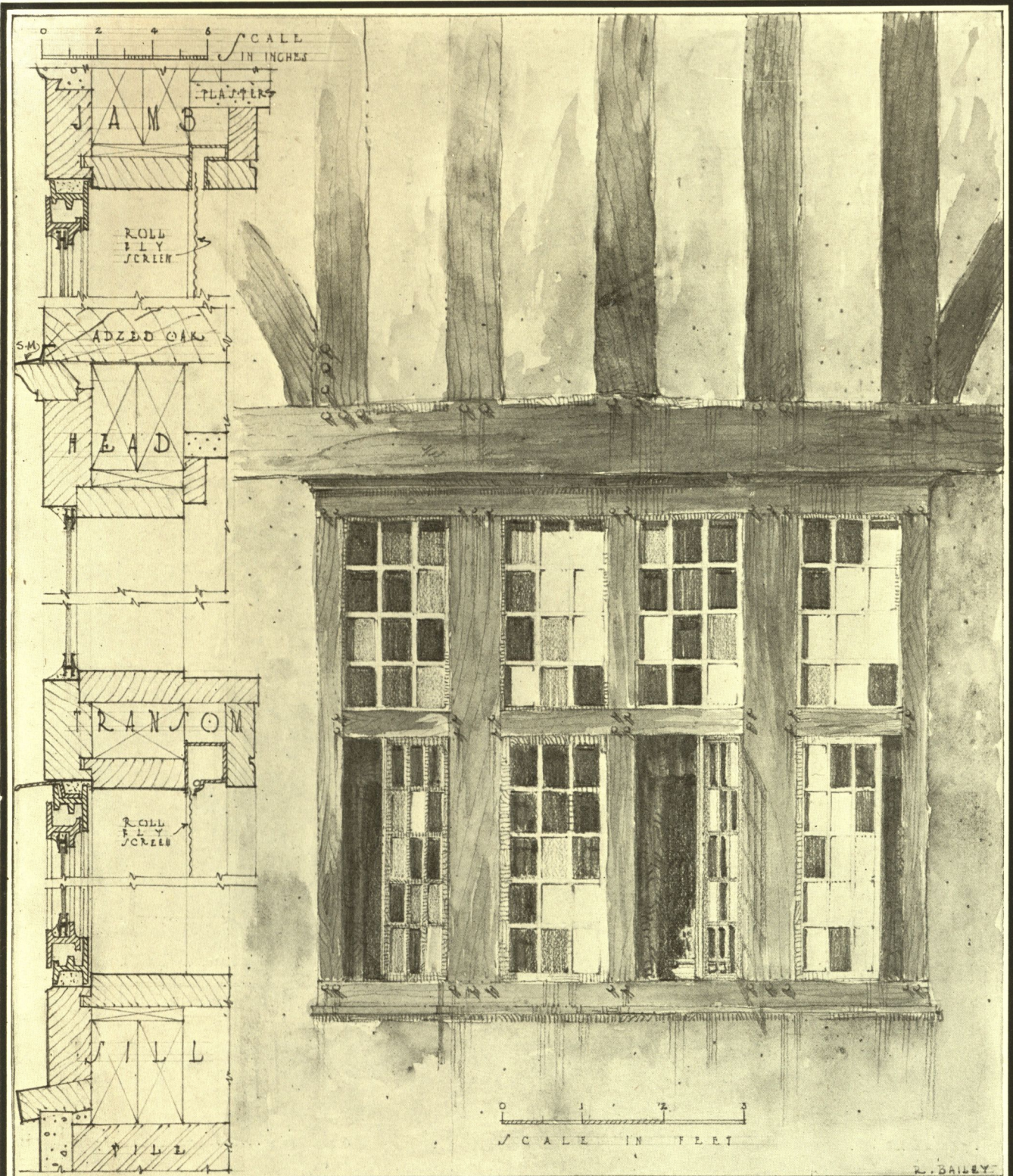


· RESIDENCE OF S. O. MERRIMAN, ESQ. ·
· JAMESTOWN · NEW YORK ·

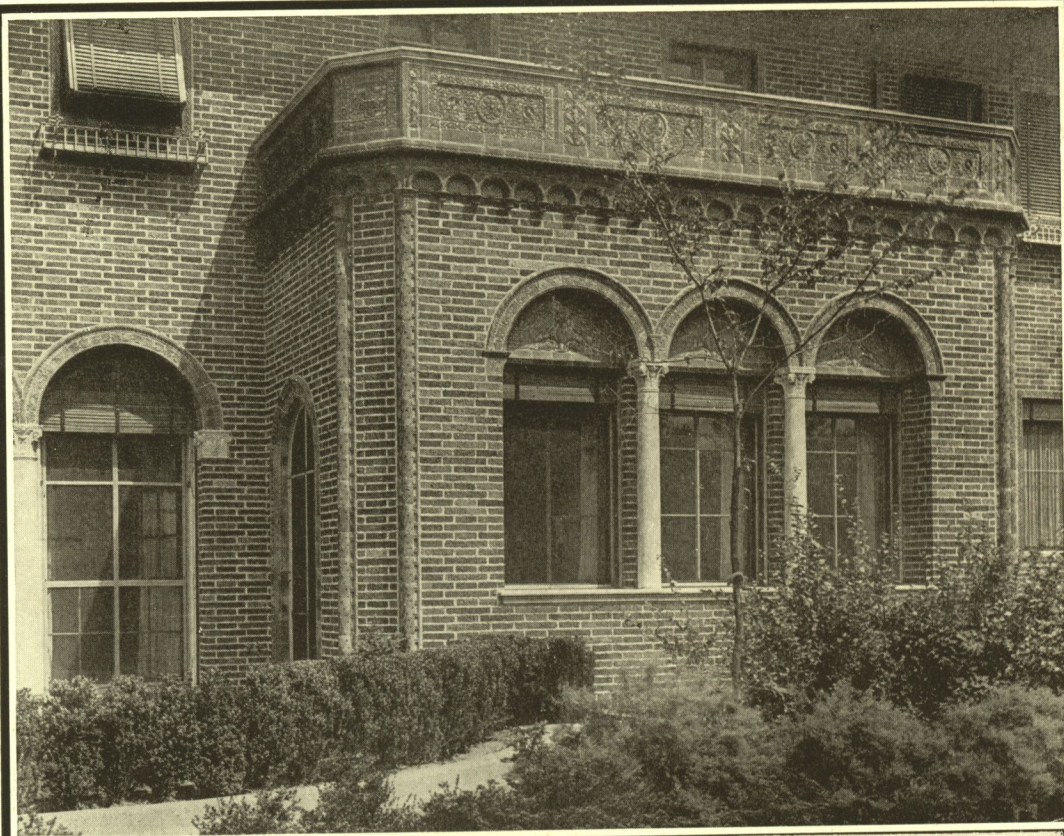
· JOHNSON & FORD ·
· C. E. HAAS ·

· ARCHITECTS ·
· CONTRACTOR ·

I.C.CO.

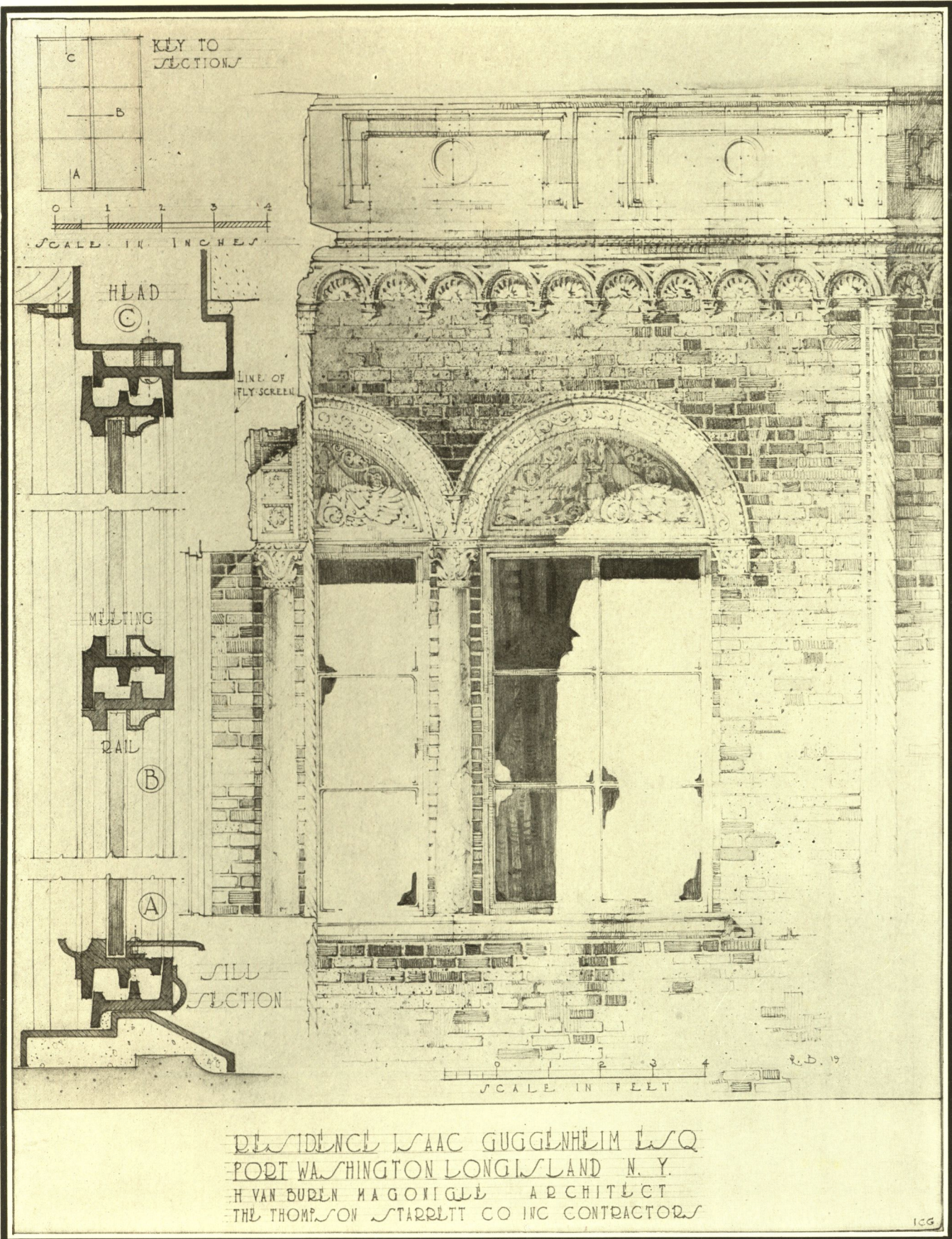


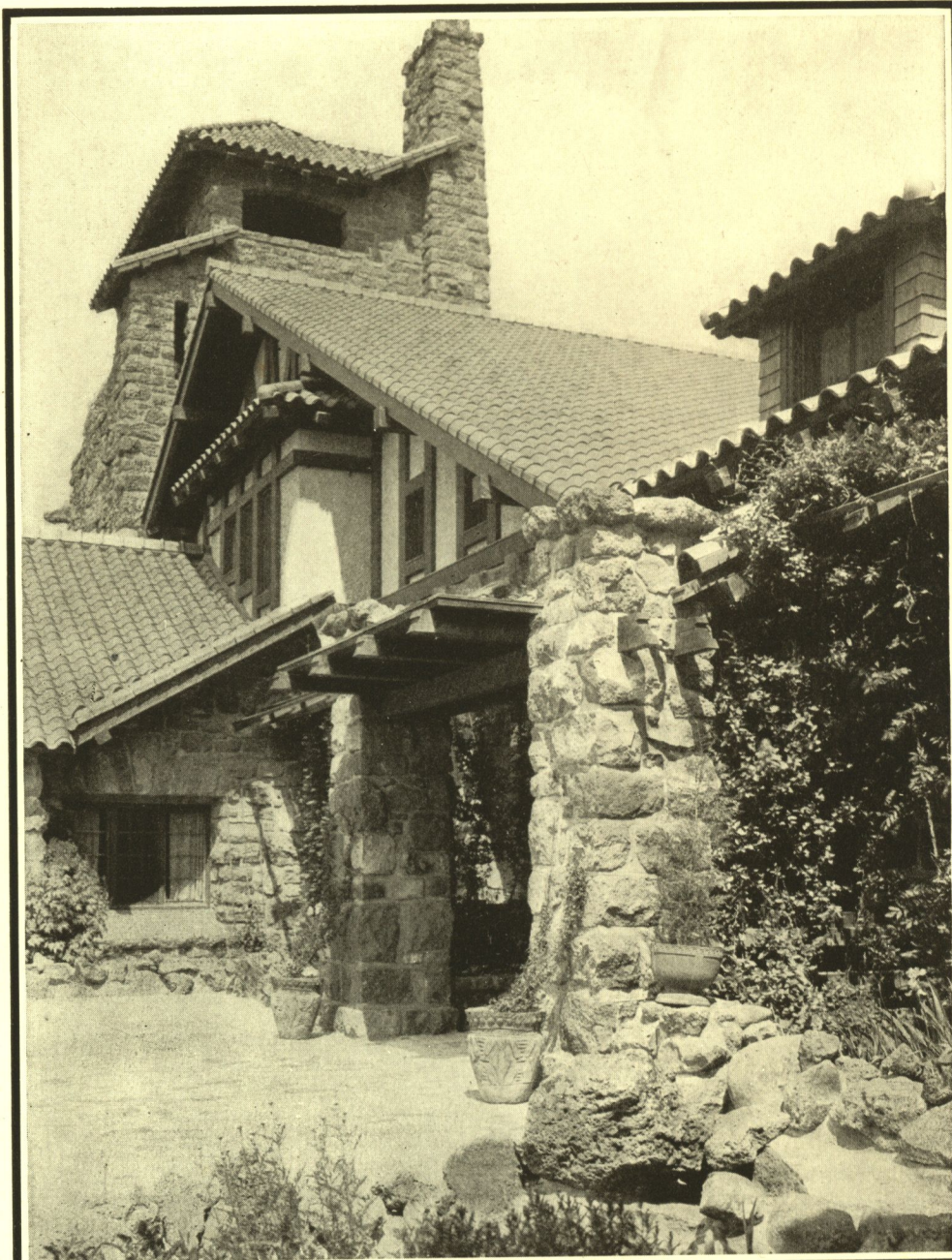
SHELDON O. MERRIMAN RESIDENCE
 J A M E S T O W N N Y
 JOHNSON & FORD ARCHITECTS
 CHARLES C. HAAS CONTRACTOR



RESIDENCE OF ISAAC GUGGENHEIM ESQ.
PORT WASHINGTON - LONG ISLAND - NEW YORK.
H. VAN BUREN MAGONIGLE ARCHITECT.

I.C.CO.





• RESIDENCE • OF • CHESTER • A • CONGDON • ESQ •
• NORTH • YAKIMA • WASHINGTON •
• WILLIAM • M • KENYON • MAURICE • F • MAINE • ARCHTS •

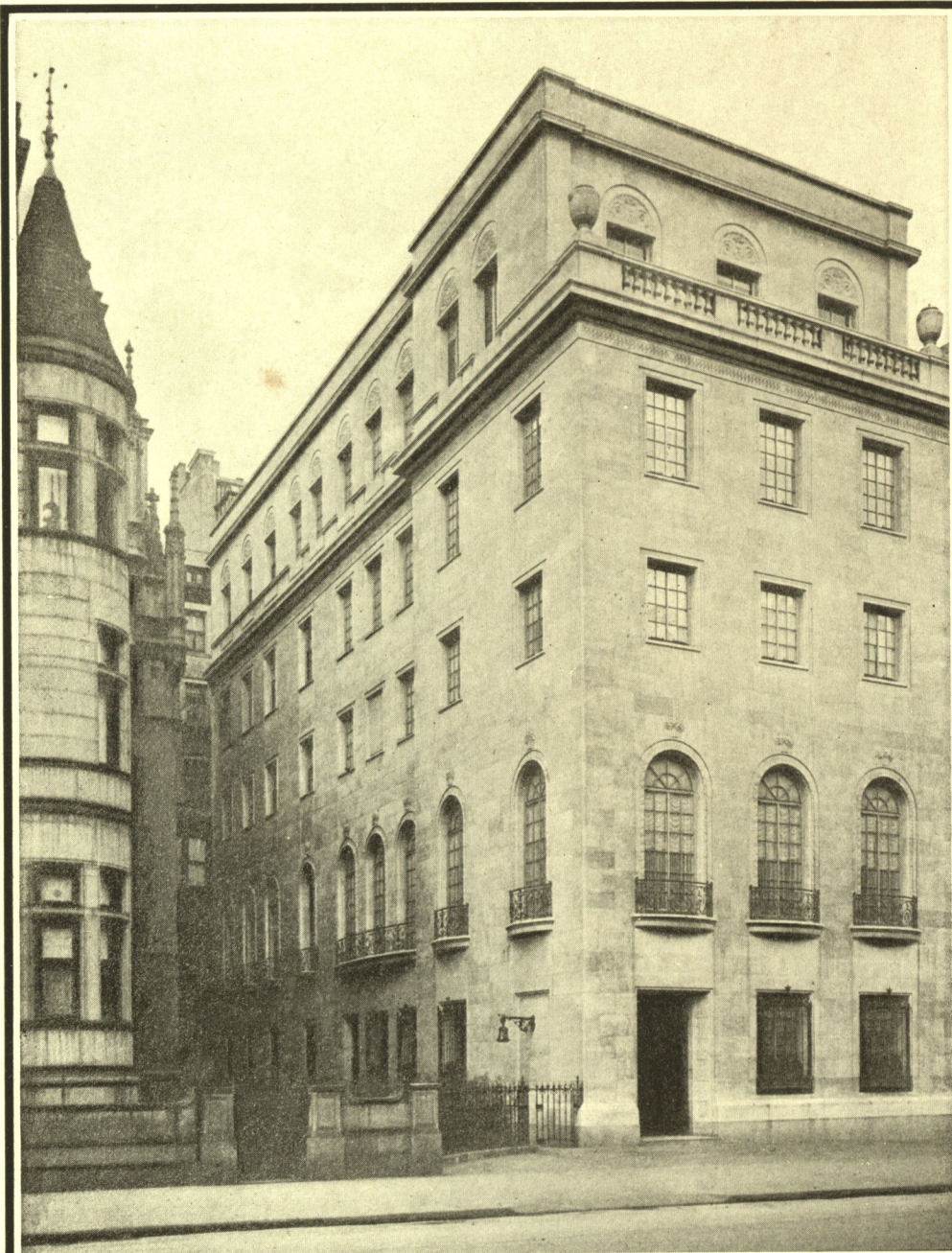
• 1922 •



RESIDENCE OF CHESTER A. CONGDON, ESQ.
NORTH YAKIMA WASHINGTON.
WM. M. KENYON & MAURICE F. MAINE ARCHITECTS.

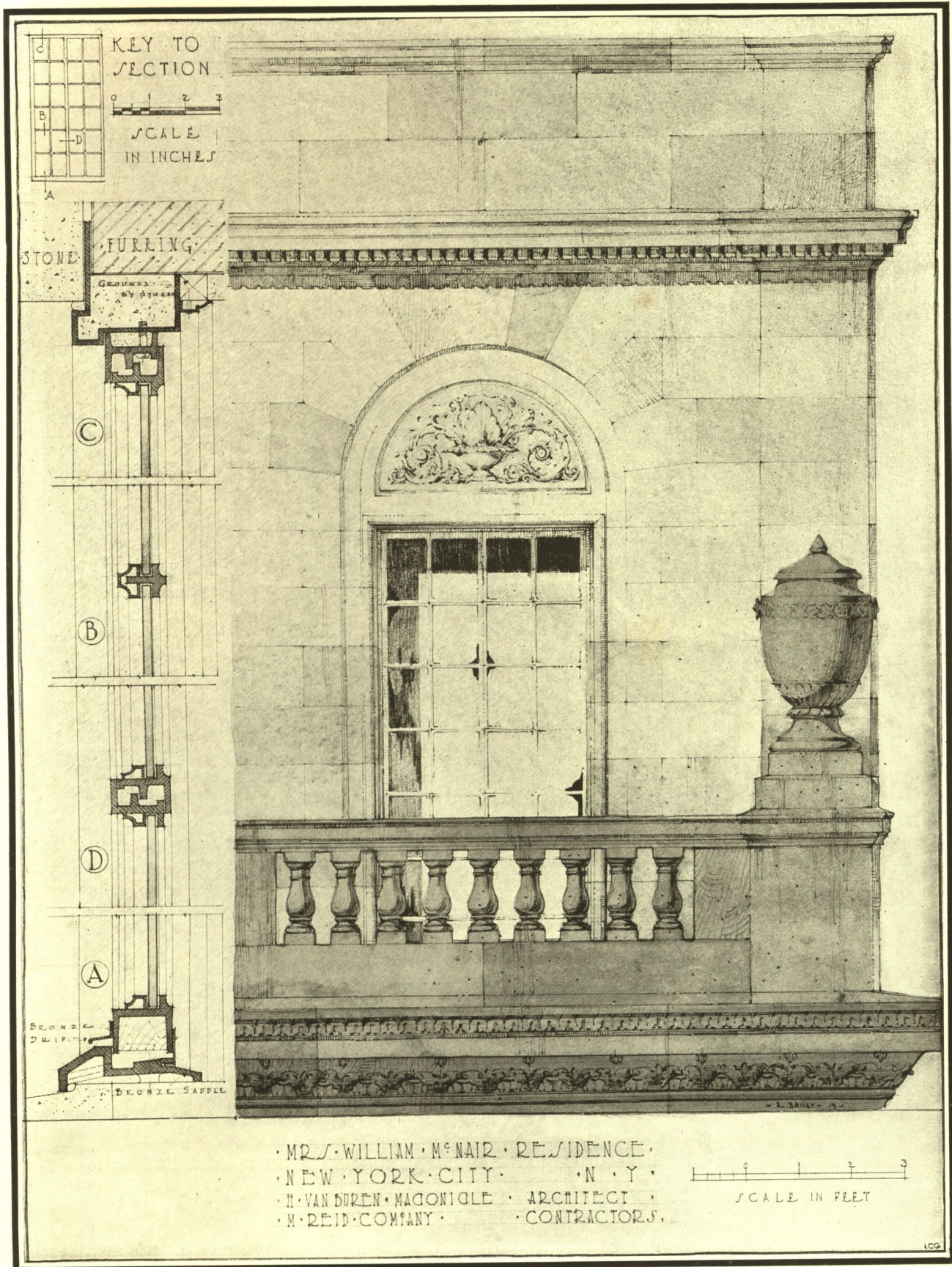
100

FOR GENERAL VIEW SEE PAGE 134



• RESIDENCE • OF • MRS • W • MC NAIR •
• NEW • YORK • CITY •
• H • VAN BUREN • MAGONIGLE • ARCHITECT •

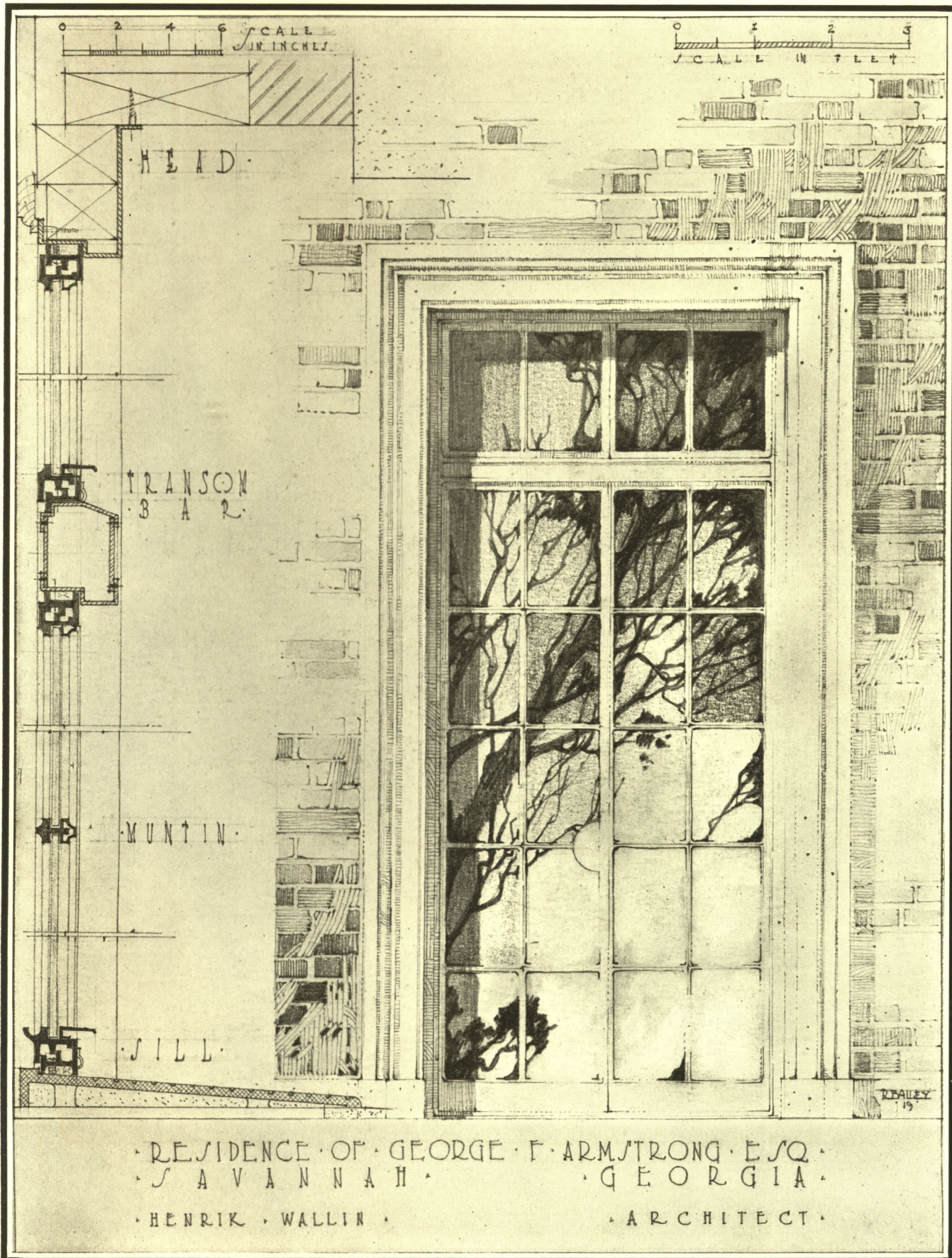
• J • C • CO •





• GEORGE F. ARMSTRONG RESIDENCE •
• SAVANNAH • • GEORGIA •
• HENRIK WALLIN • ARCHITECT •

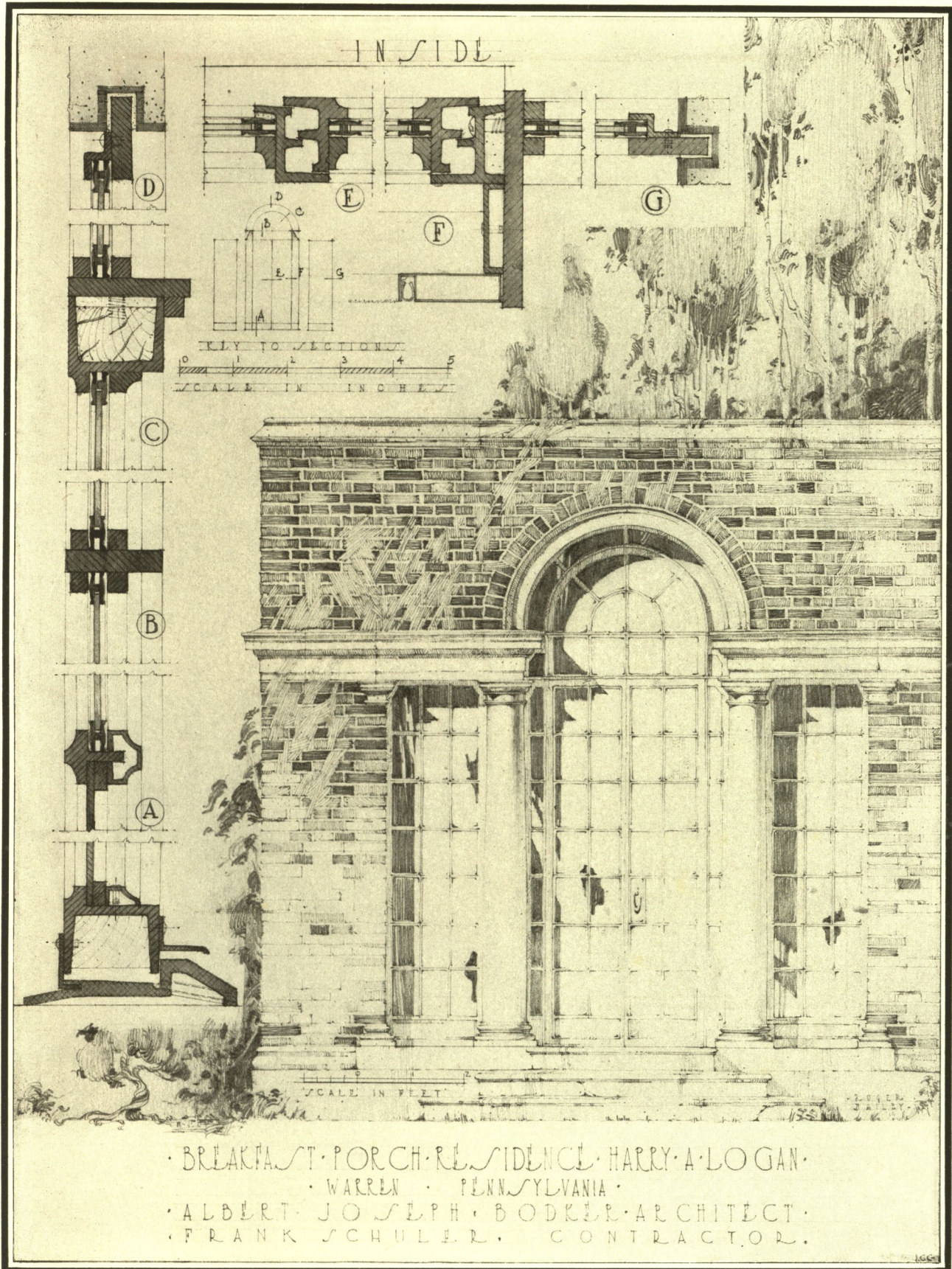
• J. C. Co. •





• RESIDENCE OF HARRY A. LOGAN ESQ. •
• WARREN • • A. J. BODKER •
• PENNA • • ARCHITECT •

• J. C. CO. •



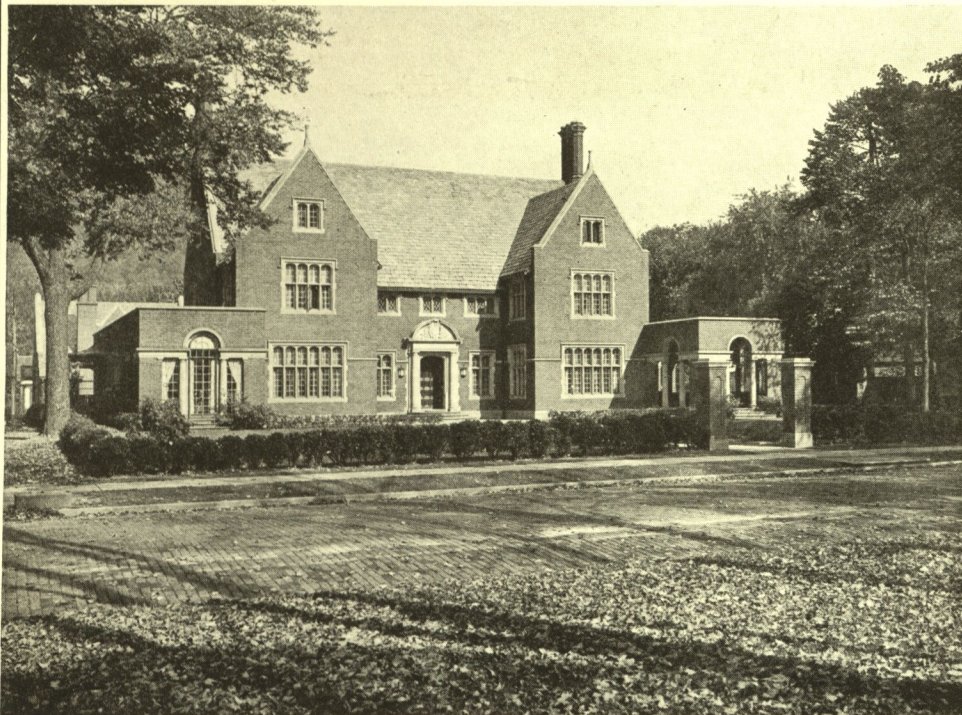


• RESIDENCE OF STEWART DUNCAN ESQ.
• NEWPORT • RHODE ISLAND.
• JOHN RUSSELL POPE • ARCHITECT.

J. E. CO.

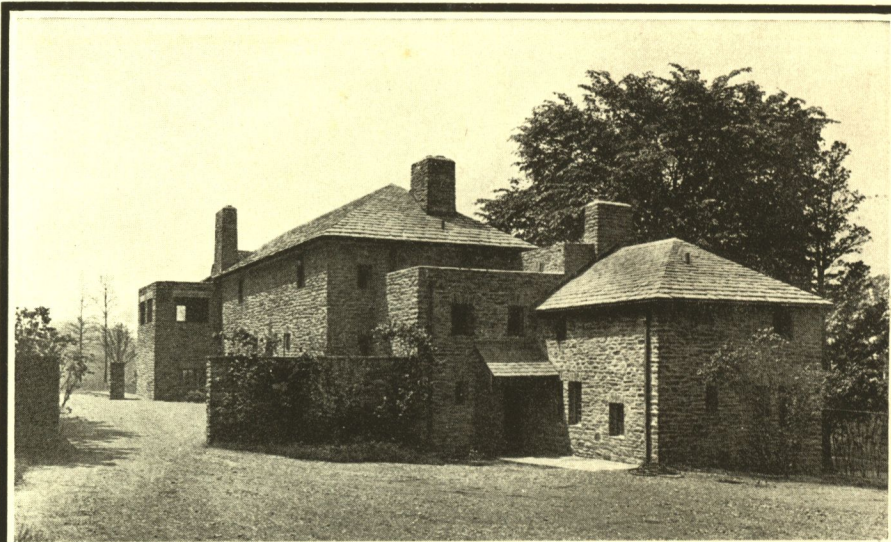


• RESIDENCE • OF • CHAS. H. SABIN • ESQ. •
 • CROSS & CROSS • SOUTHAMPTON •
 • ARCHITECTS • LONG ISLAND • N. Y. •



• RESIDENCE • OF • H. A. LOGAN • ESQ. •
 • A. J. BODKER • WARREN •
 • ARCHITECT • PENNA. •

• I. C. CO. •



RESIDENCE OF PHILIP W. HENRY ESQ.
SCARBOROUGH, NEW YORK.
BERTRAM GROSVENOR GOODHUE ARCHITECT.



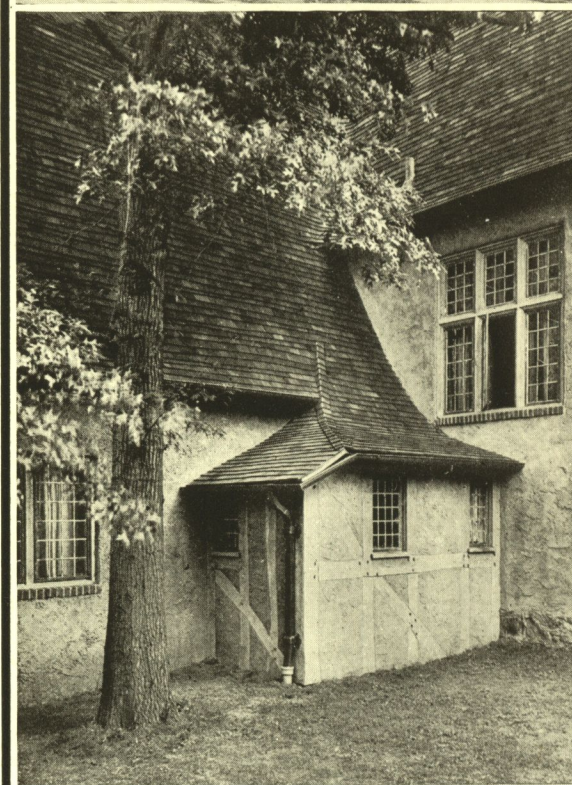
RESIDENCE OF CHESTER A. CONGDON ESQ.
NORTH YAKIMA, WASHINGTON.
WILLIAM M. KENYON ARCHTS. MAURICE F. MAINE.

I.C.C.O.



• RESIDENCE OF J. B. FREY, ESQ. •
• ROCHESTER • NEW YORK •
• J. B. ARNOLD • ARCHITECT •

• J. C. C. •



CHARLES C
CHAMBERS
RESIDENCE

FIELDSTONE
NEW YORK



JULIUS GREGORY
ARCHITECT

• I.C.C.D. •



• RESIDENCE • OF • ISAAC • GUGGENHEIM • ESQ. •
• PORT • WASHINGTON • LONG • ISLAND • NEW • YORK •
• H • VAN • BUREN • MAGONIGLE • ARCHITECT •

• I • C • CO •



• RESIDENCE • OF • ALAN • LEHMAN • ESQ •
• TARRYTOWN • • JOHN • RUSSELL • POPE •
• NEW • YORK • • ARCHITECT •

• I • C • CO •



• RESIDENCE • OF • ALAN • LEHMAN • ESQ. •
 • TARRYTOWN • • JOHN • RUSSELL • POPE •
 • NEW YORK • • ARCHITECT •

J. C. CO.



• RESIDENCE • OF • W. D. PACKARD • ESQ. •
• CHAUTAUQUA • • WARREN & WETMORE •
• NEW YORK • • ARCHITECTS •

• 1920 •



• RESIDENCE OF E.L. FORD ESQ.
• GROSSE POINTE • DETROIT • MICH.
ALBERT H. SPAHR ARCHITECT



• RESIDENCE OF WALTER M. JEFFORDS ESQ.
• GRADYVILLE • • • PENNA •
• WILSON EYRE & McILVAINE • ARCHITECTS •
• R.C. BALLINGER & CO CONTRACTORS •

I.C.Co.



• RESIDENCE OF GEORGE F. ARMSTRONG • ESQ. •
 • SAVANAH • GEORGIA •
 HENRIK WALLIN ARCHITECT



• RESIDENCE •
 • LAVEROCK • • PENNA •
 CHARLES A. PLATT ARCHITECT
 J. S. CORNELL & SON CONTRACTORS I.C.Co.



• RESIDENCE OF CHRISTIAN DE GUIGNE JR. •

• SAN MATEO •

• CALIFORNIA •

• BLISS & FAYVILLE •

• ARCHITECTS •

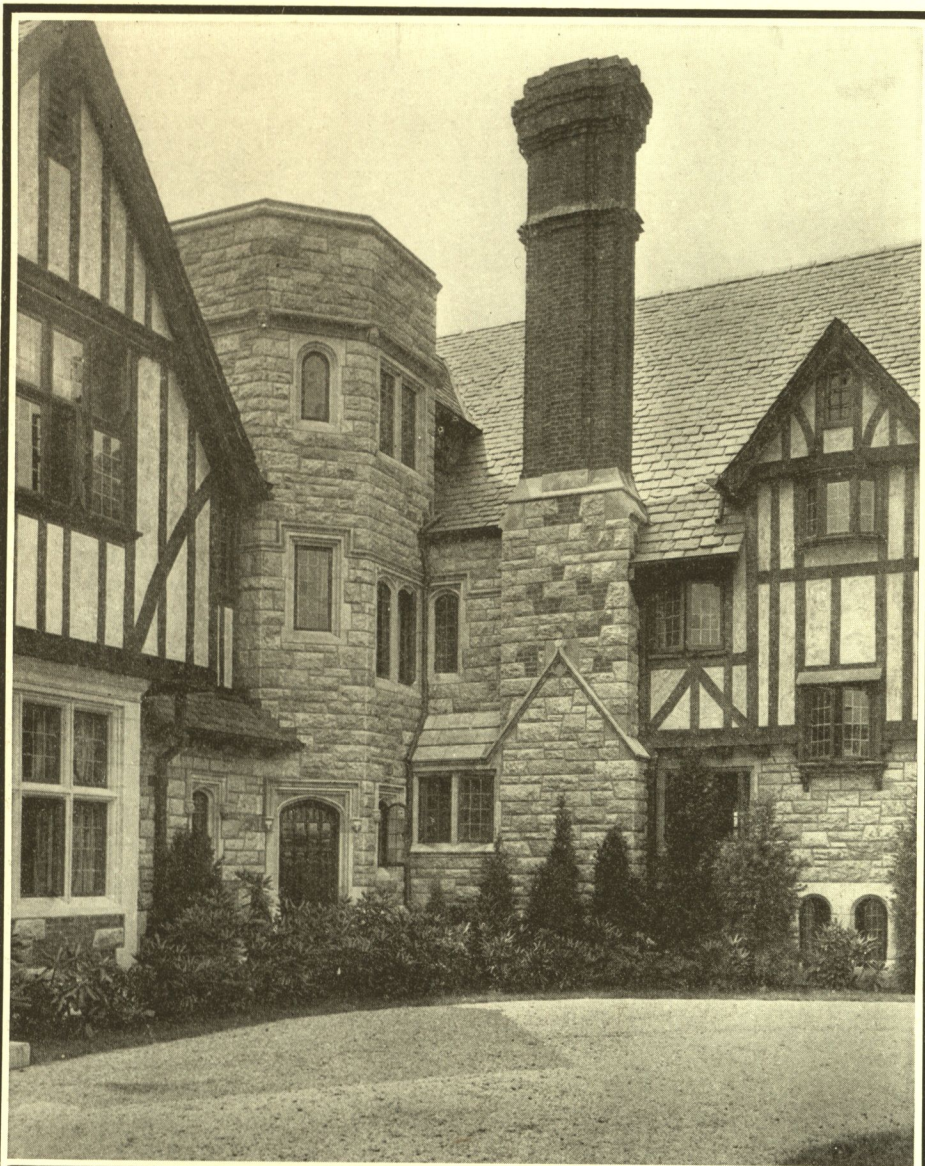
• 1920 •



C20

RESIDENCE OF CHARLES H. SCHWEITZ, ESQ.
LAKE FOREST, ILLINOIS.
FREDERICK W. PERKINS, ARCHITECT.

1-2-20



STAIR TOWER - RESIDENCE
GREENWICH CONNECTICUT

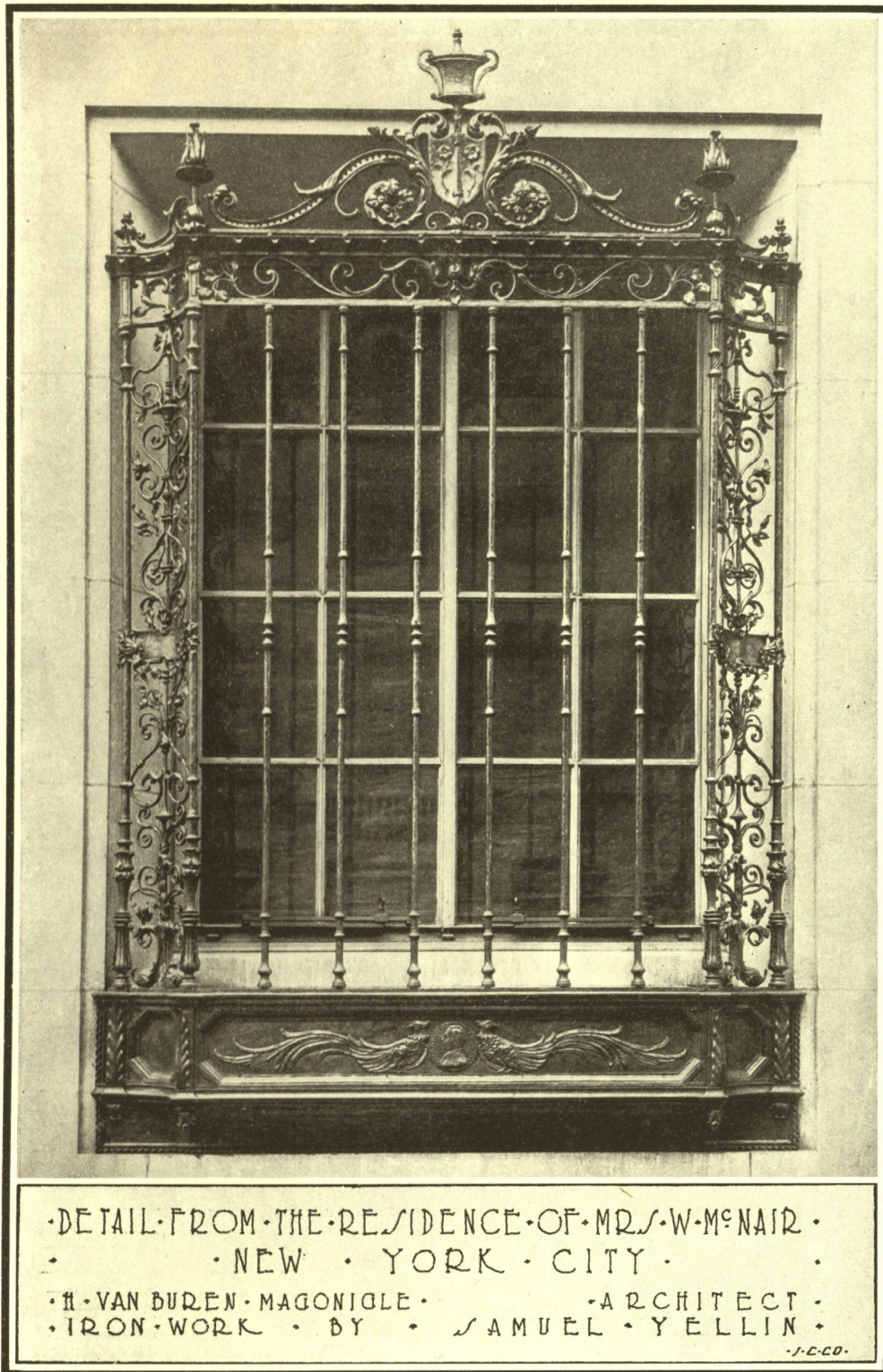
W. F. DOMINICK

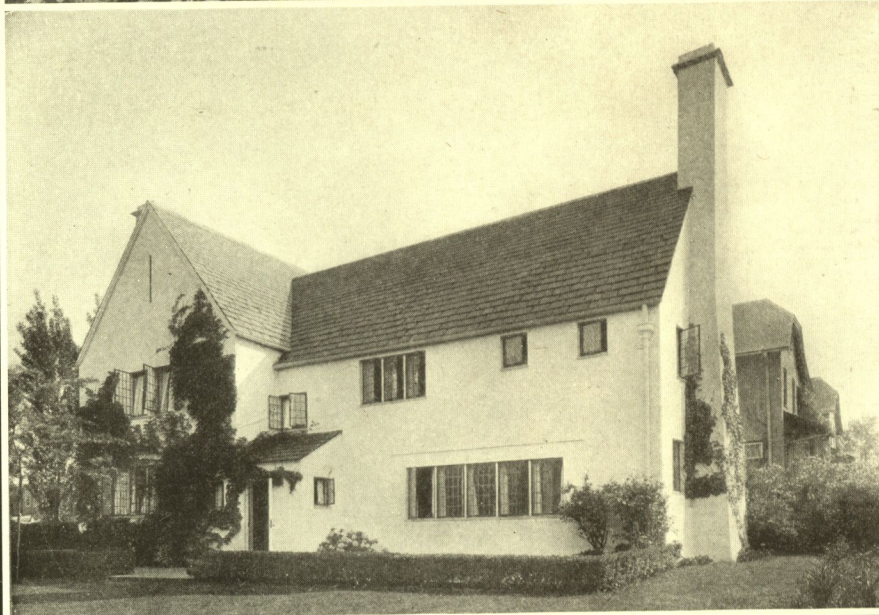
ARCHITECT

I.C. Co.



DR. W. A. PUSEY • APARTMENTS •
 • CHICAGO • • ILLINOIS •
 • PERKINS • FELLOW • & • HAMILTON • ARCHTS. •
 • J. E. CO. •





RESIDENCE OF PHILLIP BURNETT ESQ.
WILMINGTON · DELAWARE ·
BROWN & WHITESIDE
ARCHITECTS ·

J.C.CO.



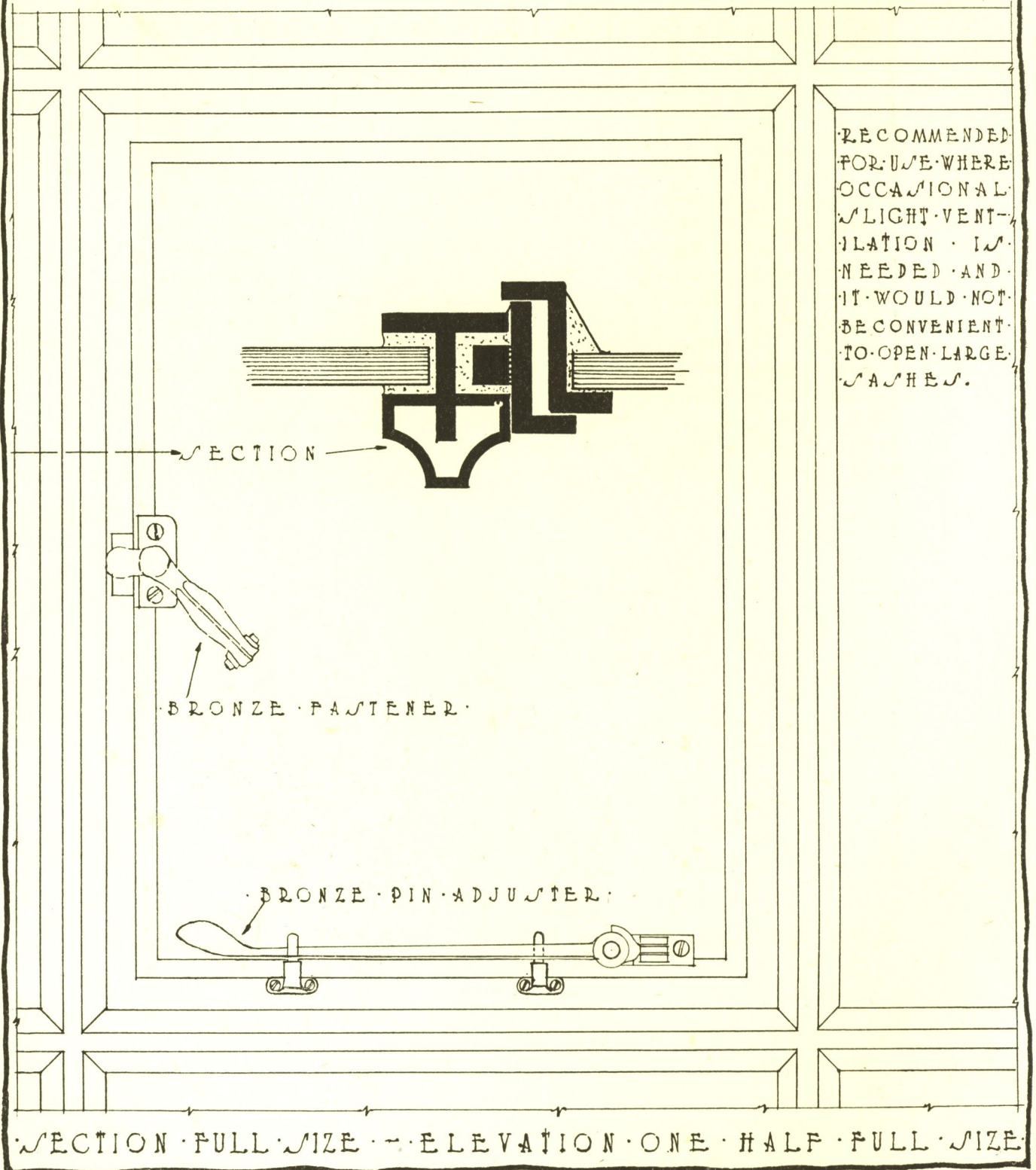
• RESIDENCE • OF • PHILLIP • BURNETT • ESQ •

• WILMINGTON •
• DELAWARE •

• BROWN & WHITE •
• ARCHITECTS •

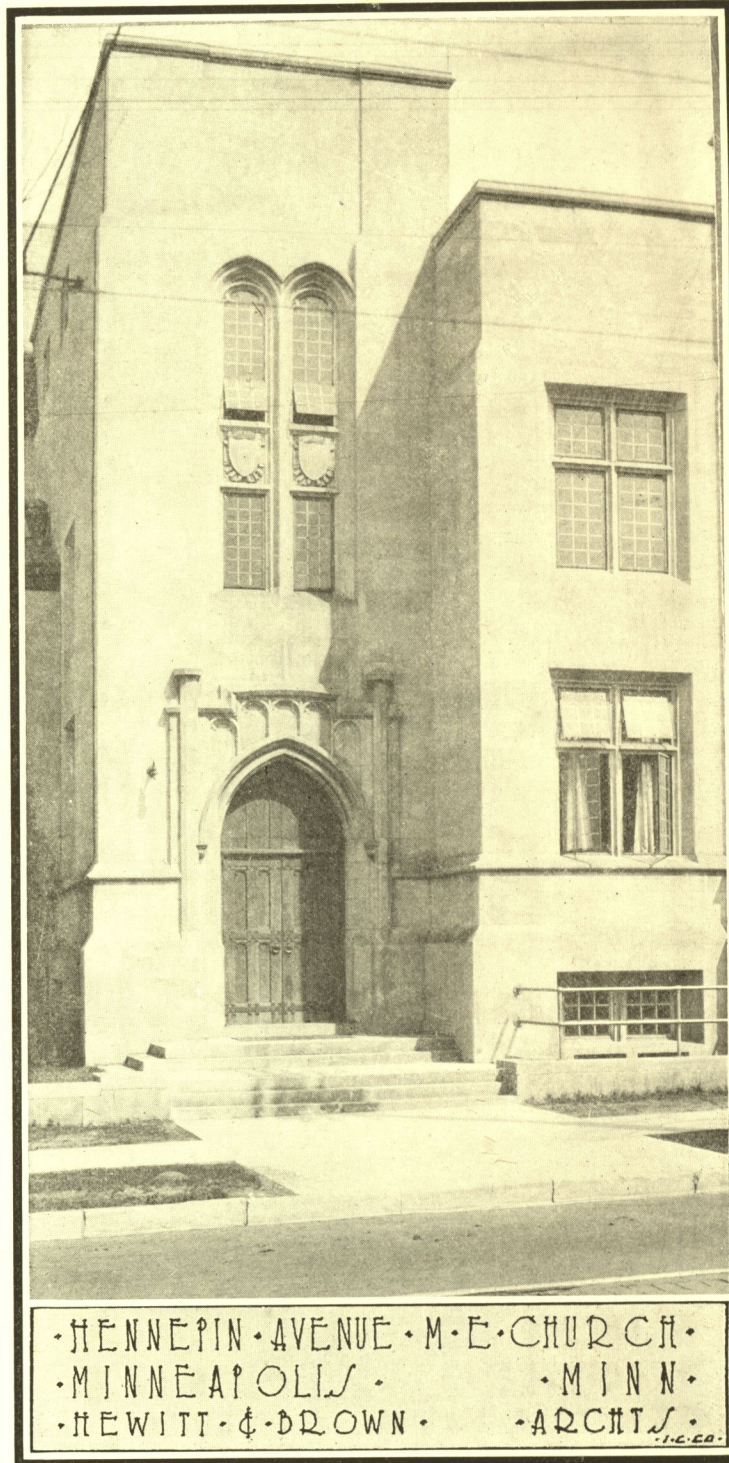
• J. C. C. O. •

· VENTILATORS · FOR · SETTING · TO ·
· MUNTINS · IN · LARGE · SASHES ·

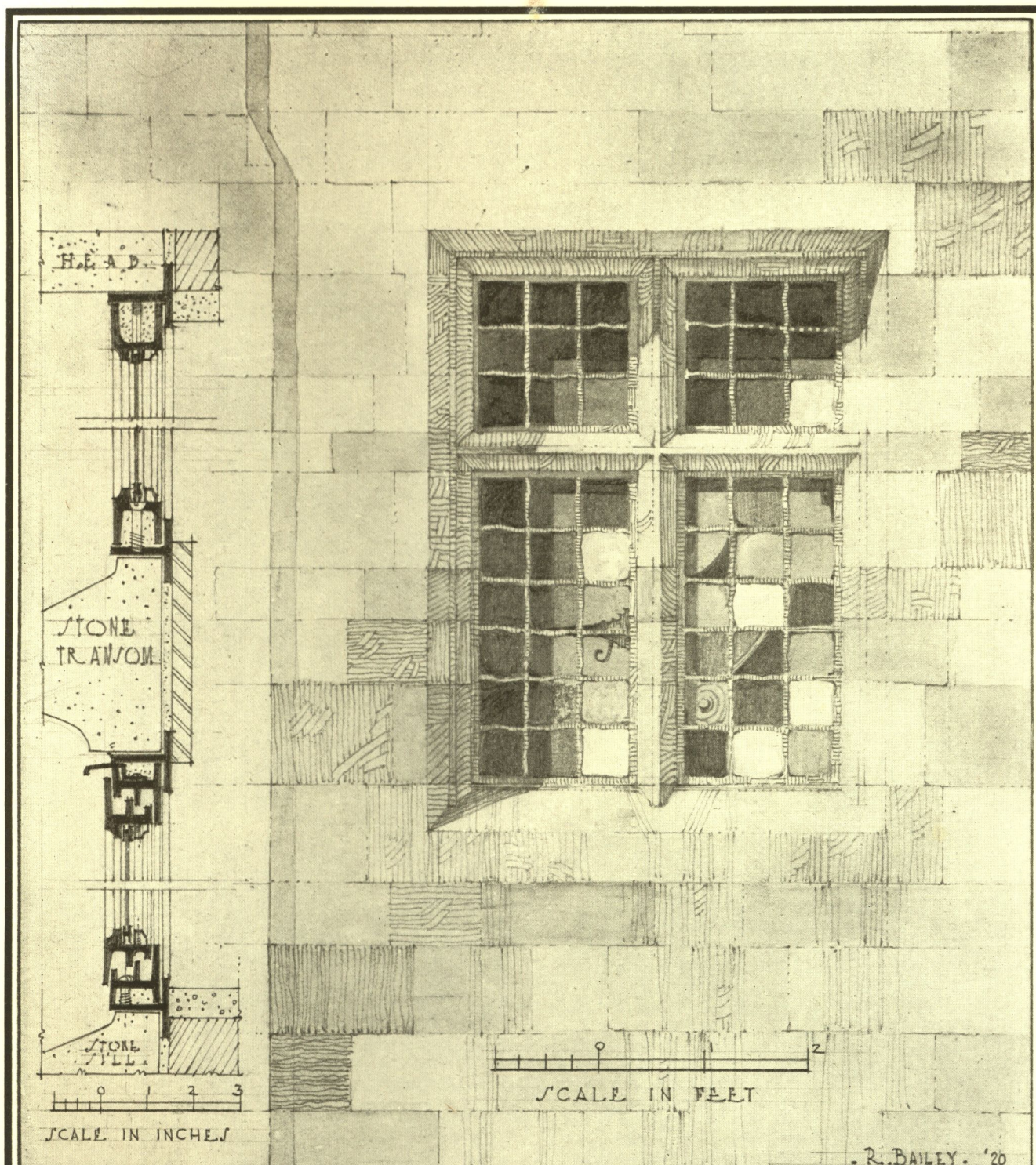


PHOTOGRAPHS AND MEASURED DRAWINGS OF CHURCHES, COLLEGE BUILDINGS AND SCHOOLS EQUIPPED WITH INTERNATIONAL CASEMENTS

JOB	ARCHITECT
FIRST PRESBYTERIAN CHURCH, Greensburg, Pa.....	CRAM & FERGUSON
M. E. CHURCH, Minneapolis, Minn.....	HEWITT & BROWN
ST. COLMAN'S CHURCH, Cleveland, Ohio.....	E. J. SCHNEIDER
CHAPEL OF THE GOOD SHEPHERD, Ruxton, Md.....	THOMAS BOND OWINGS
CENTRAL DORMITORIES, Wellesley College.....	COOLIDGE & CARLSON
SKINNER RECITATION BLDG., Mount Holyoke College.....	PUTNAM & COX
LIBERAL ARTS BUILDING, Wellesley College.....	DAY & KLAUDER
ST. MARY'S HALL, Boston College.....	MAGINNIS & WALSH
LIBERTY SCHOOL, Revere, Mass.....	MCNAUGHTON & ROBINSON
HIGH SCHOOL, Ithaca, N. Y.....	WILLIAM H. MILLER
FIRST CONGREGATIONAL CHURCH, Somerville, Mass.....	CRAM & FERGUSON
REST HOUSE, Mt. Auburn Cemetery.....	RALPH HARRINGTON DOANE



FRANK BETHUNE

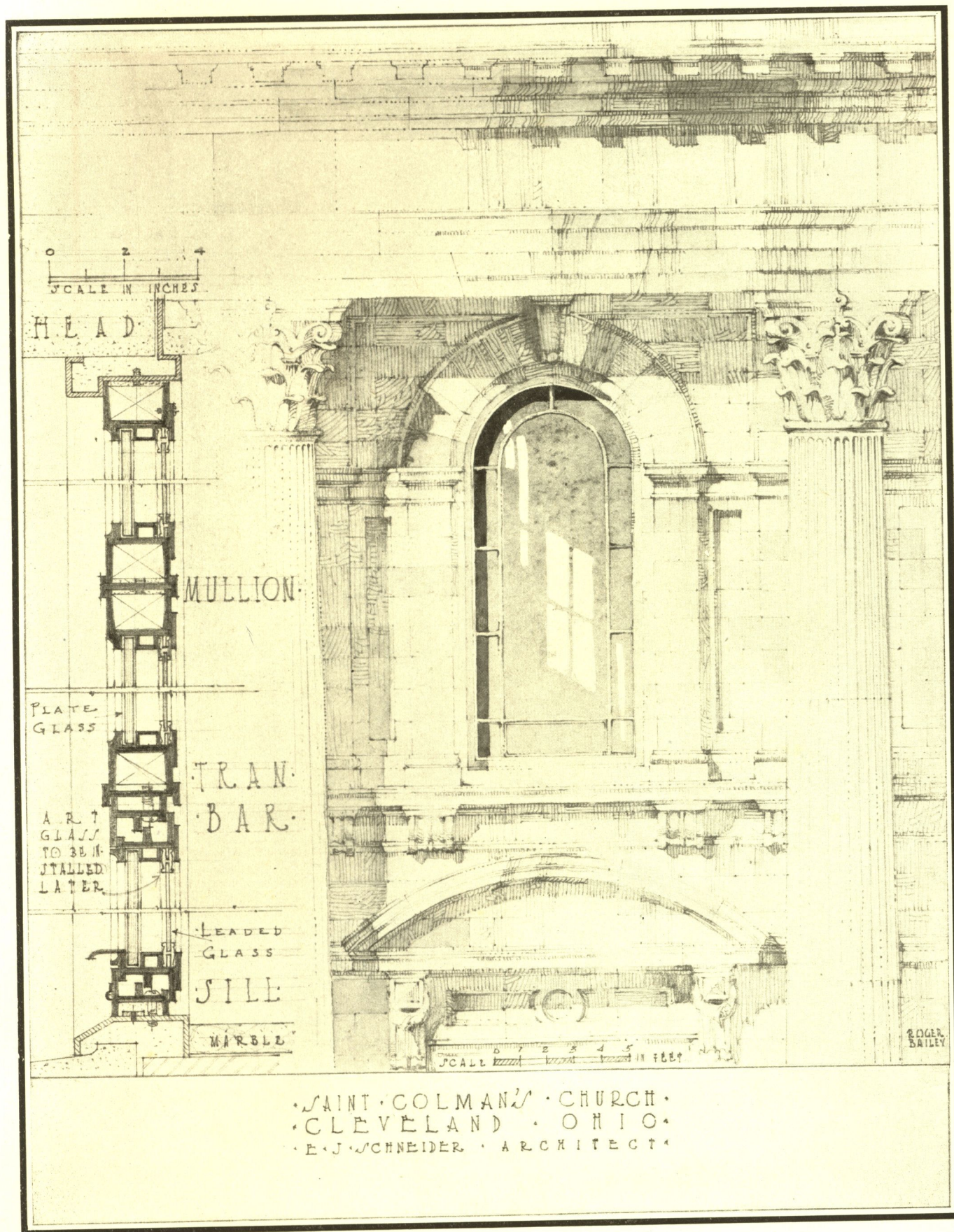


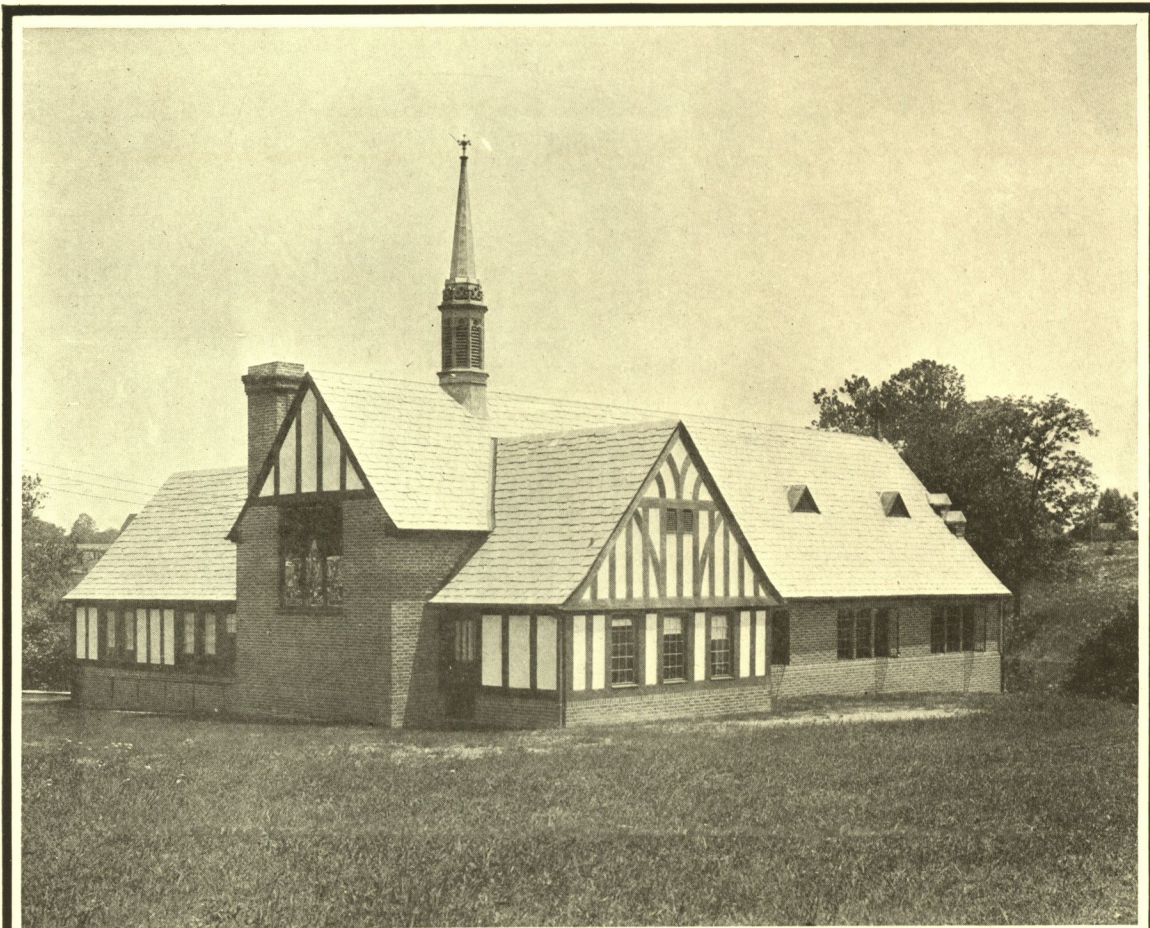
HENNEPIN AVENUE METHODIST EPISCOPAL CHURCH
 MINNEAPOLIS MINNESOTA
 HEWITT & BROWN ARCHITECTS
 PIKE & COOK CONTRACTORS



• SAINT • COLEMAN'S • CHURCH •
• CLEVELAND • • E. J. SCHNEIDER •
• C H I O • • A R C H I T E C T •

• I. F. CO. •



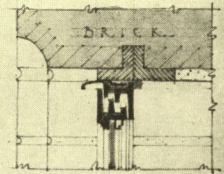
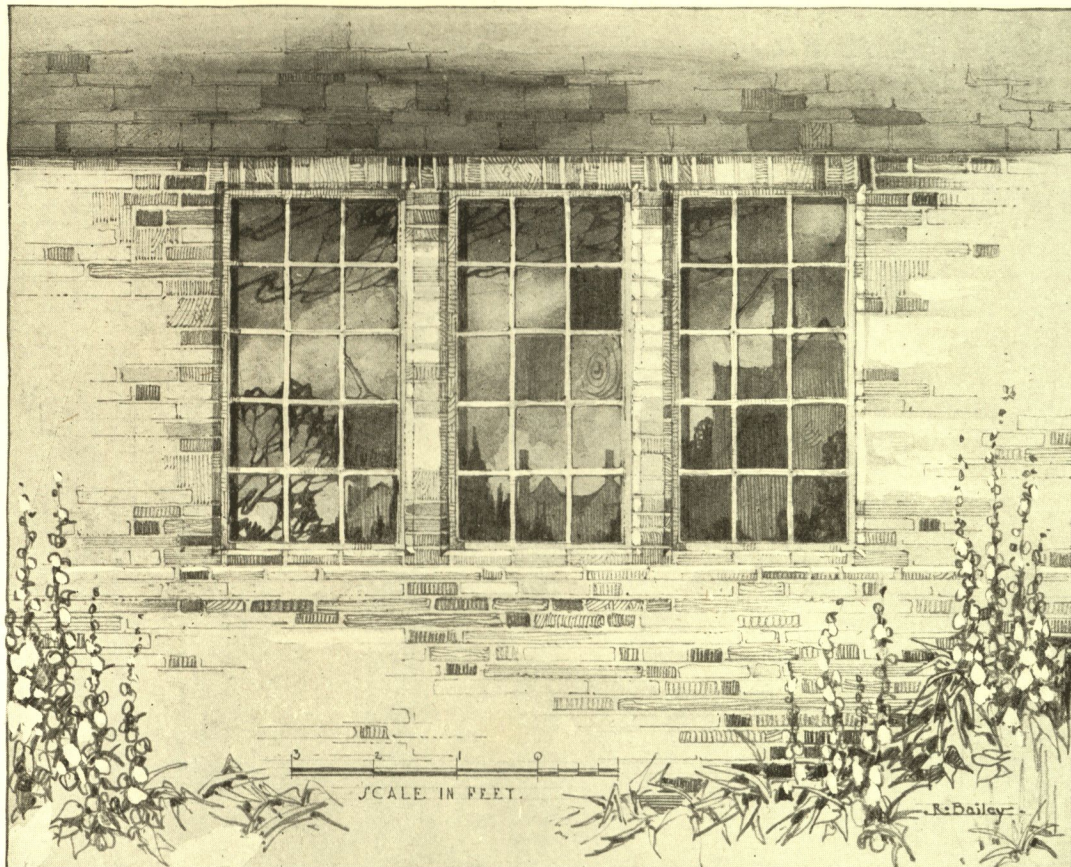


· CHAPEL · OF · THE · GOOD · SHEPHERD ·
· DUXTON · BALTIMORE · COUNTY · MARYLAND ·

· THOMAS · BOND · OWINGS ·
· THE · COWAN · BUILDING · CO. ·

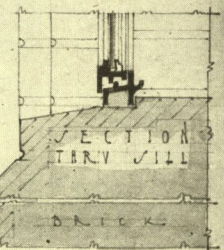
· ARCHITECT ·
· CONTRACTOR ·

I.C.C.O.

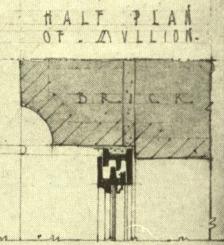


SECTION
THRU HEAD

SCALE 2 1 0
IN INCHES



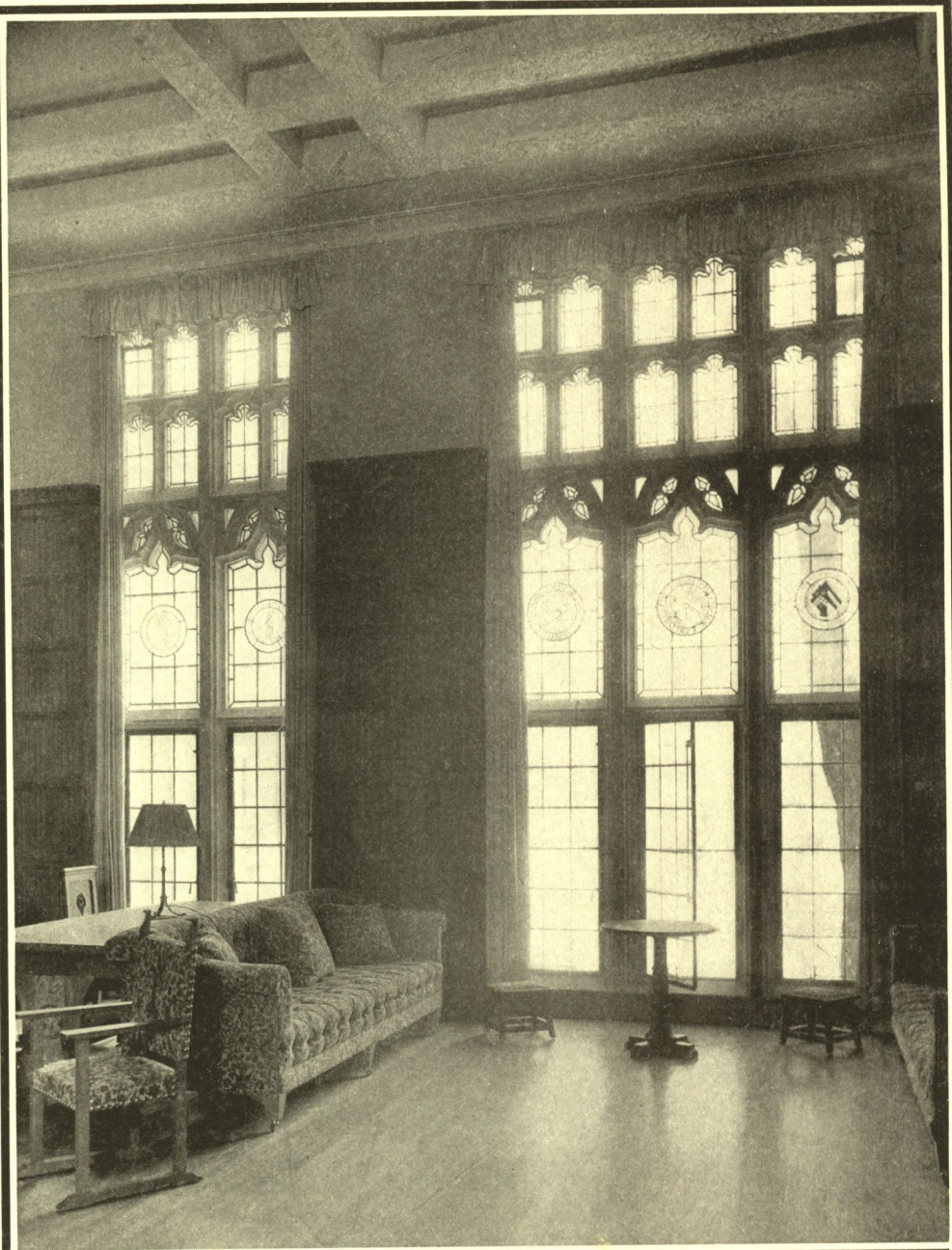
SECTION
THRU SILL



HALF PLAN
OF WINDOW

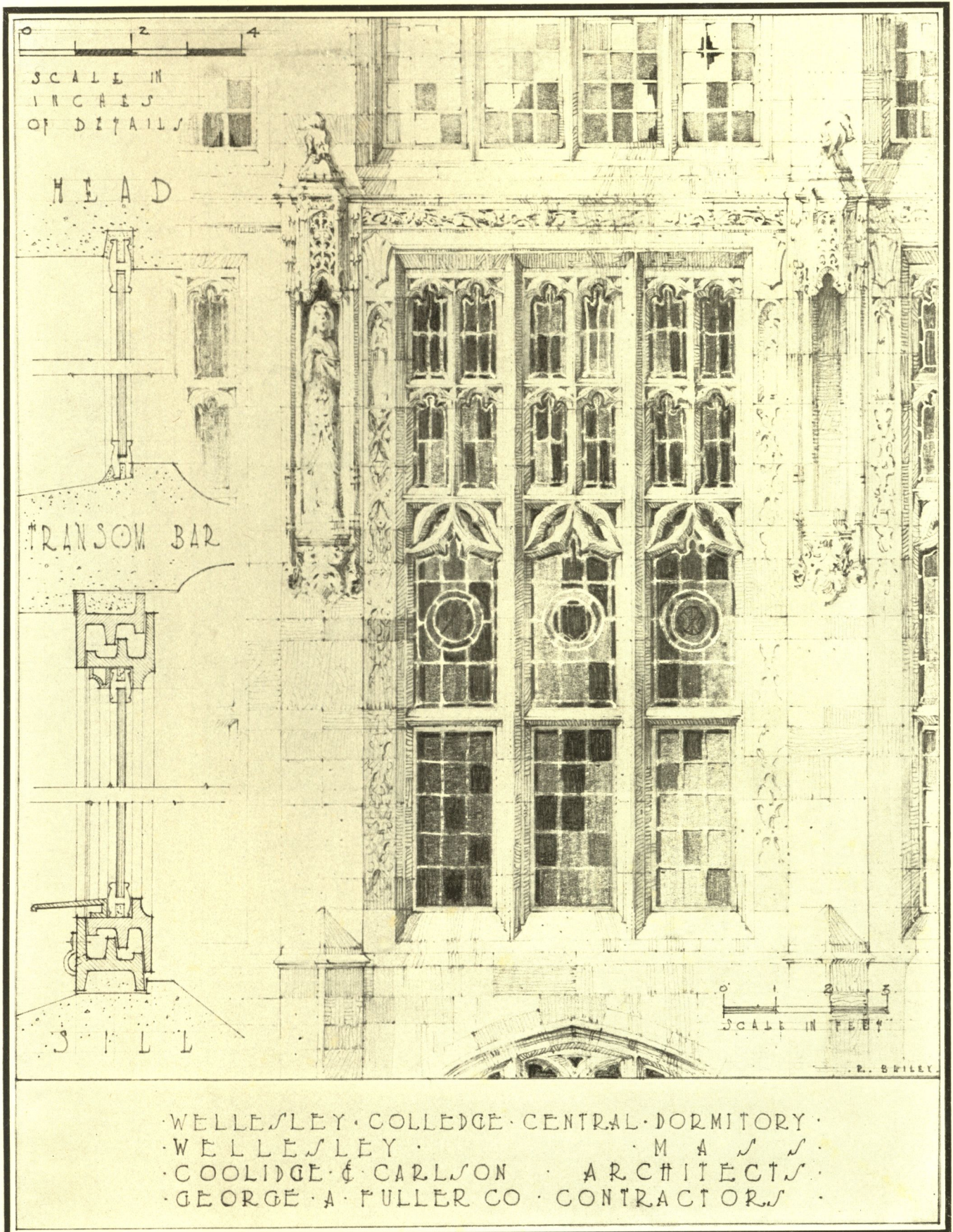
CHAPEL OF THE GOOD SHEPHERD
RUXTON BALTIMORE COUNTY MARYLAND
THOMAS BOND OWINGS ARCHITECT

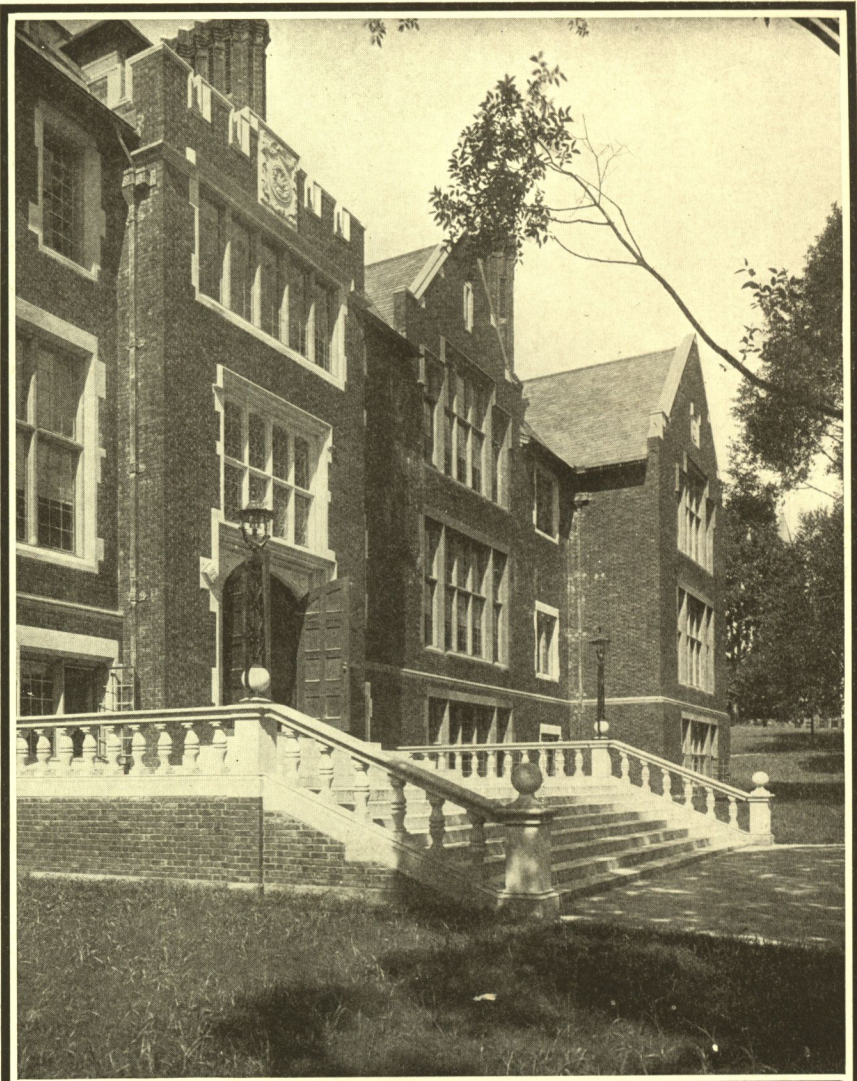
166



• CENTRAL • DORMITORY •
• WELLESLEY • COLLEGE •
• COOLIDGE • CARLSON • ARCHTS •

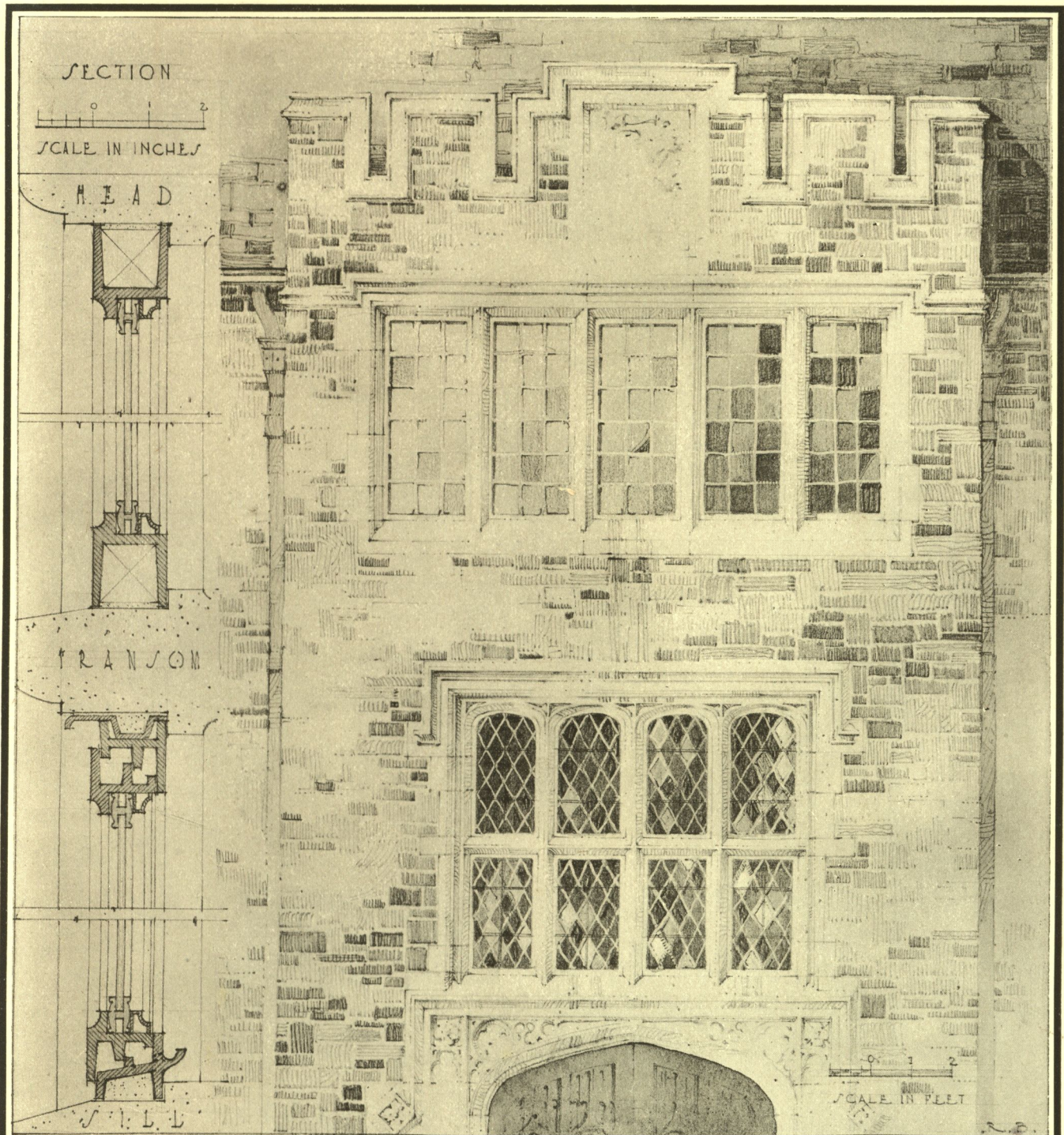
• J. C. CO. •



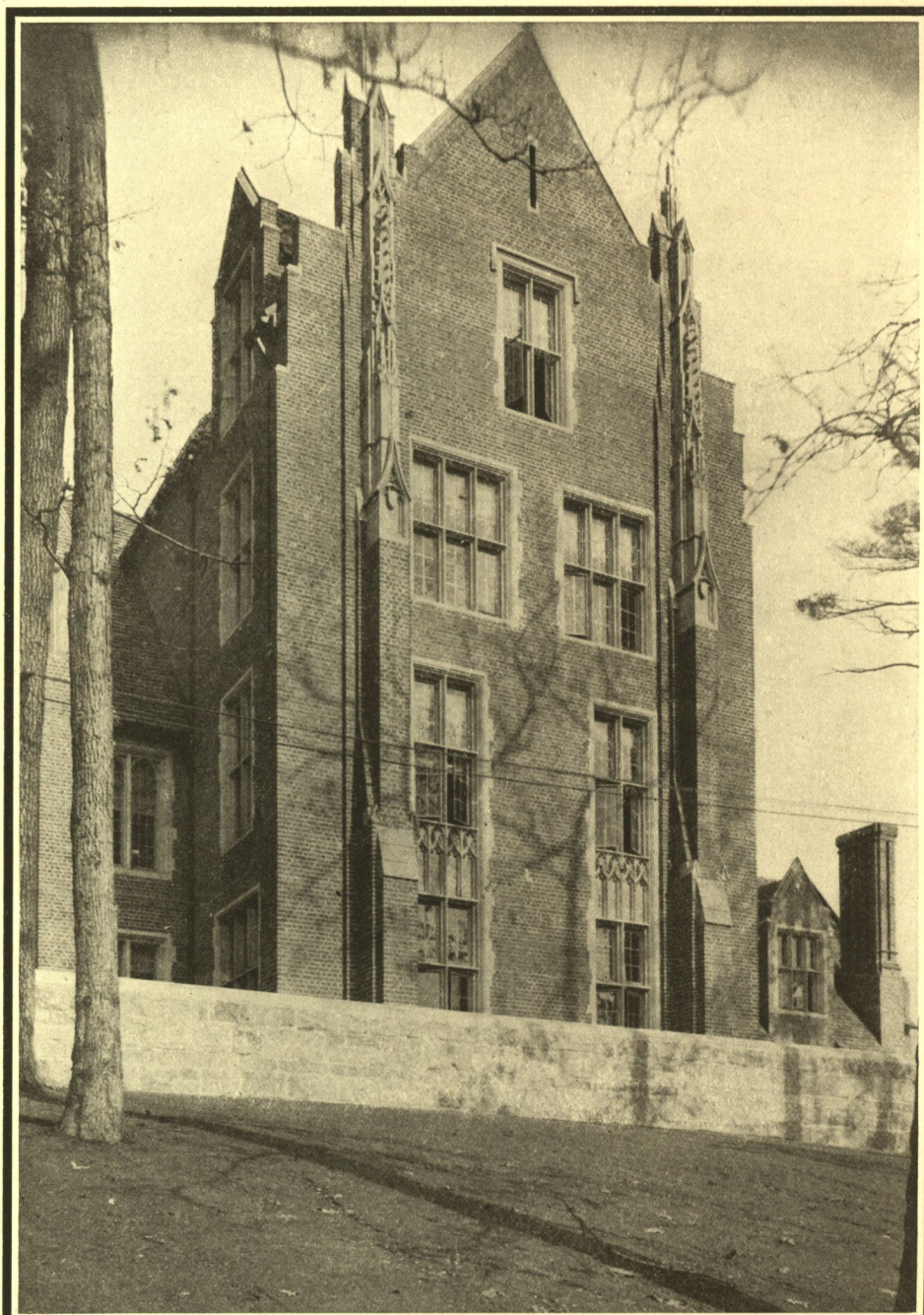


• SKINNER • RECITATION • HALL •
• MOUNT • HOLYOKE • COLLEGE •
• SOUTH • HADLEY • • PUTNAM • & • COX •
• M A S S • • ARCHITECTS •

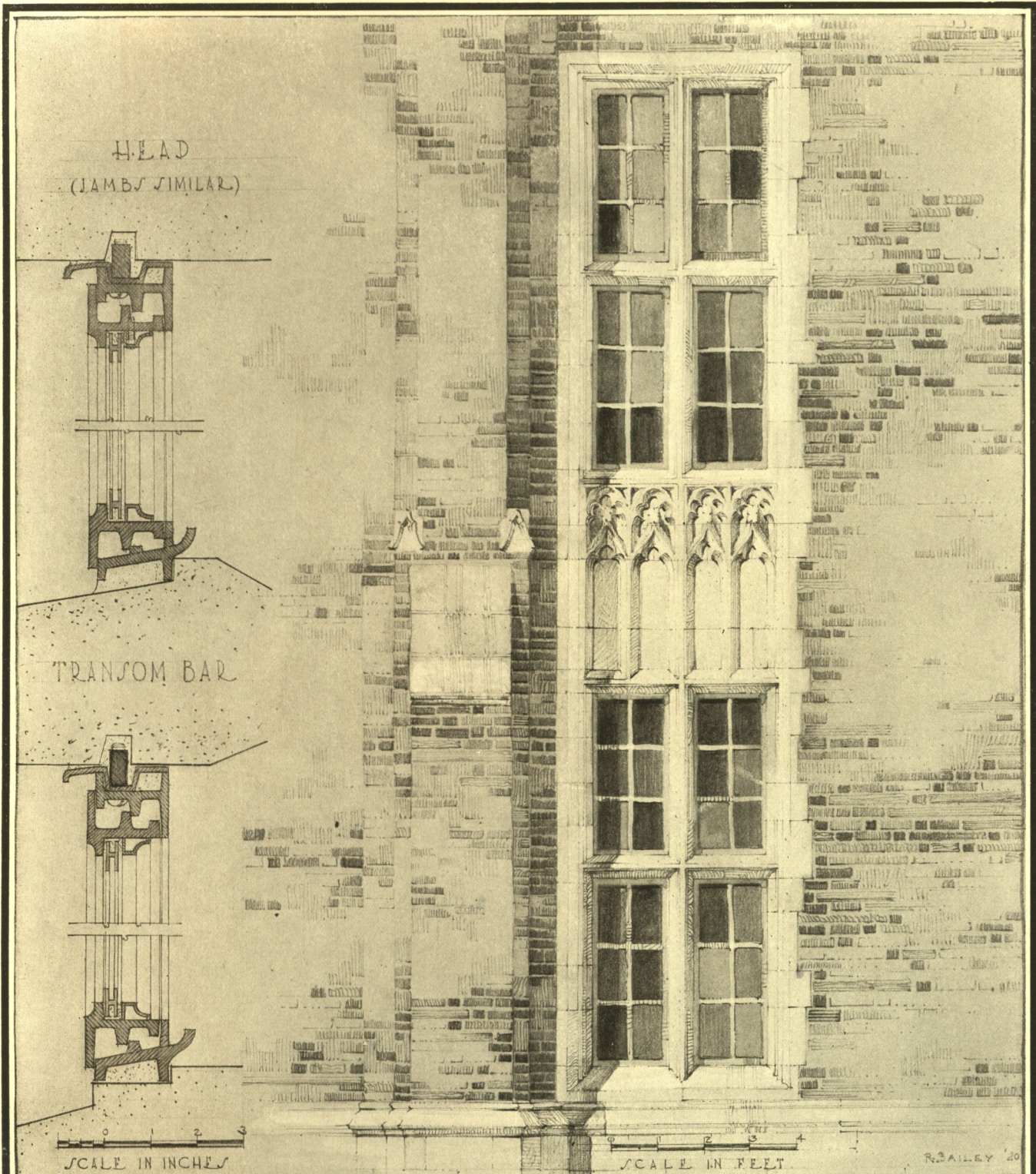
J. C. CO.



SKINNER RECITATION HALL
 MOUNT HOLYOKE COLLEGE MASS
 PUTNAM & COX ARCHITECTS
 CASPER RANGER CO. CONTRACTORS

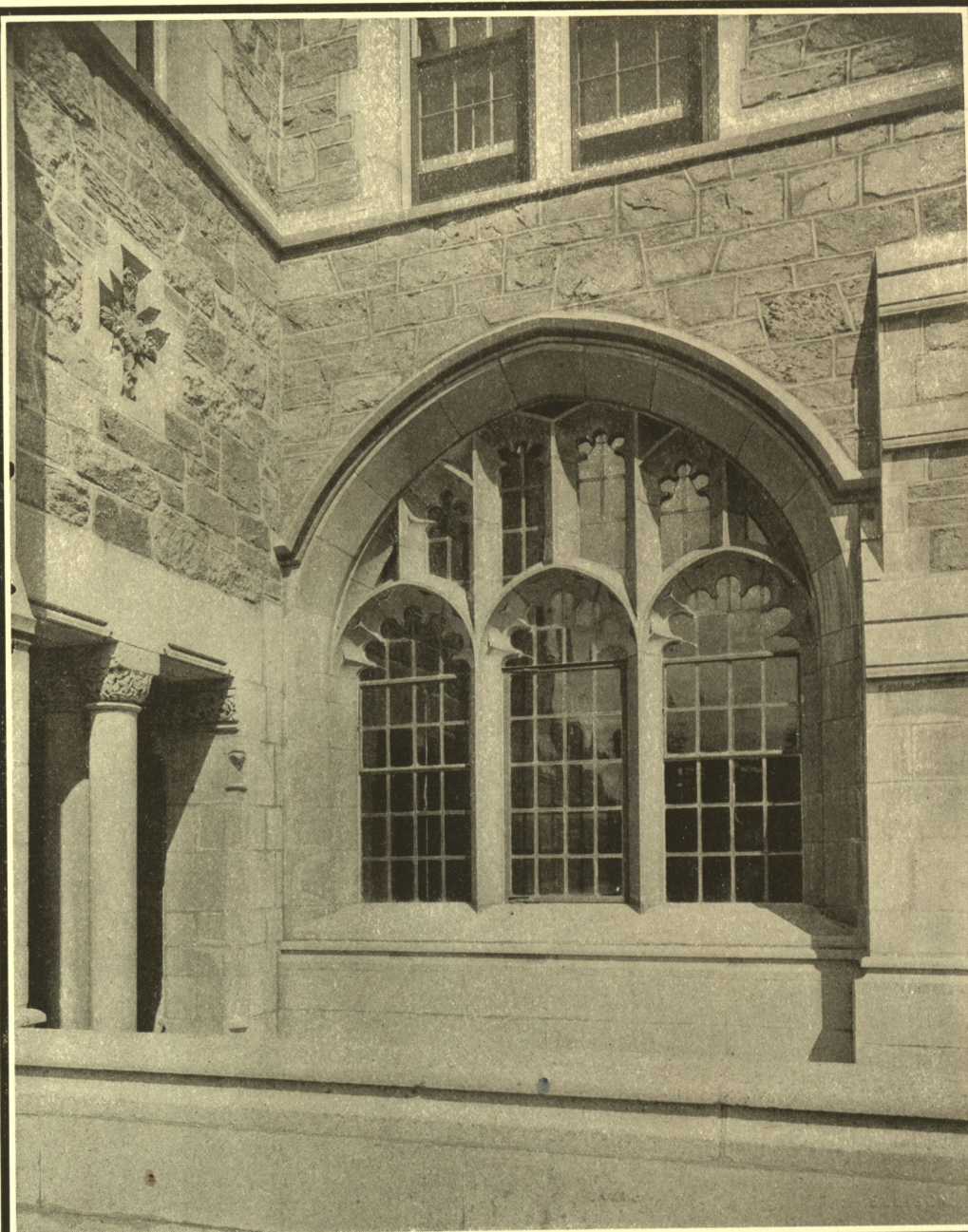


* LIBERAL ARTS BUILDING WELLESLEY COLLEGE *
 * WELLESLEY * * * * MASSACHUSETTS *
 * DAY & KLAUDER * * ARCHITECTS *
 * EDWARD CORNING CO. CONTRACTORS *
 I.C.Co.



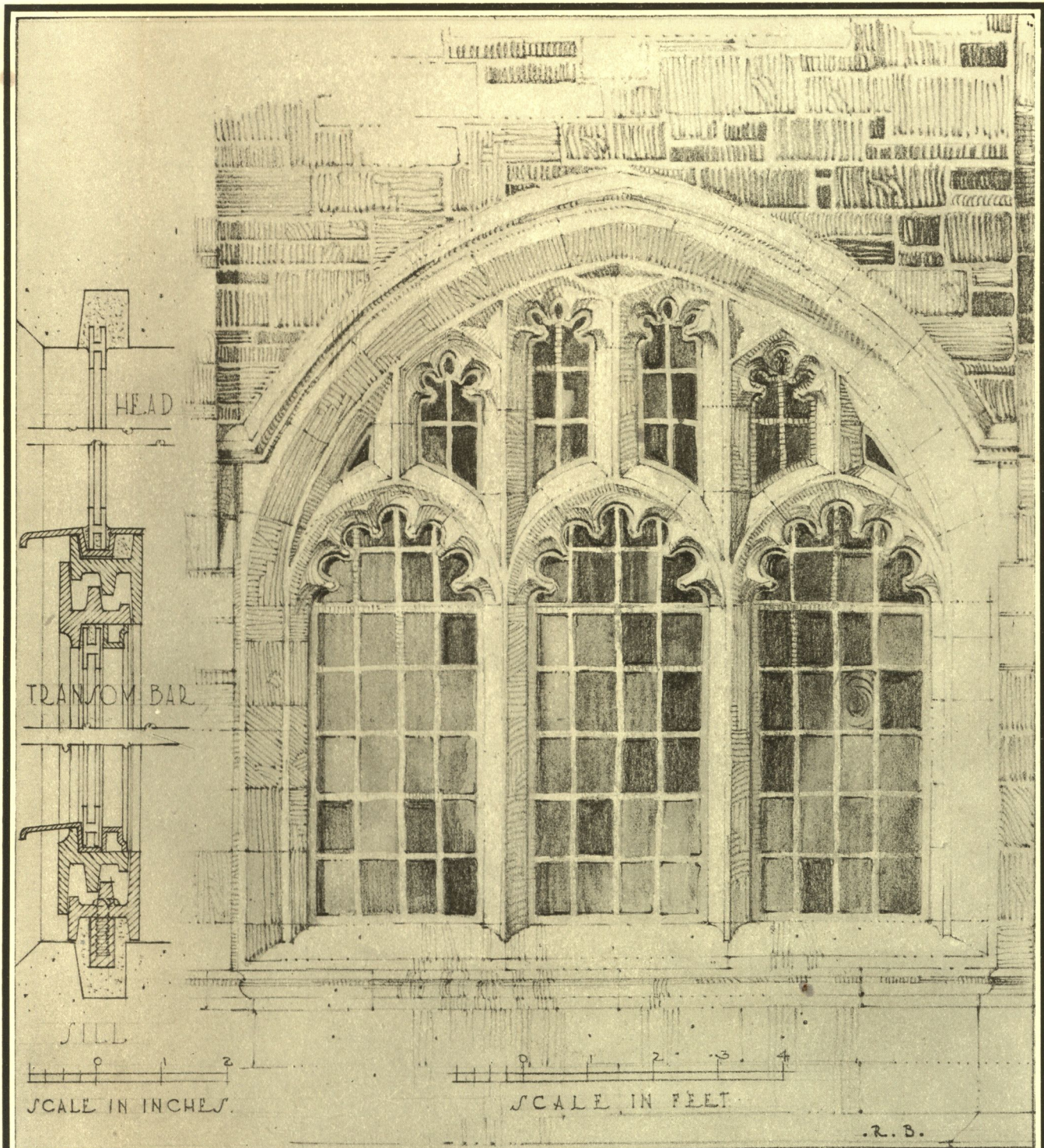
LIBERAL ARTS BUILDING : WELLESLEY COLLEGE :
WELLESLEY : MASS :

DAY AND KLAUDER : ARCHITECTS.
EDWARD CORNING CO : CONTRACTORS.

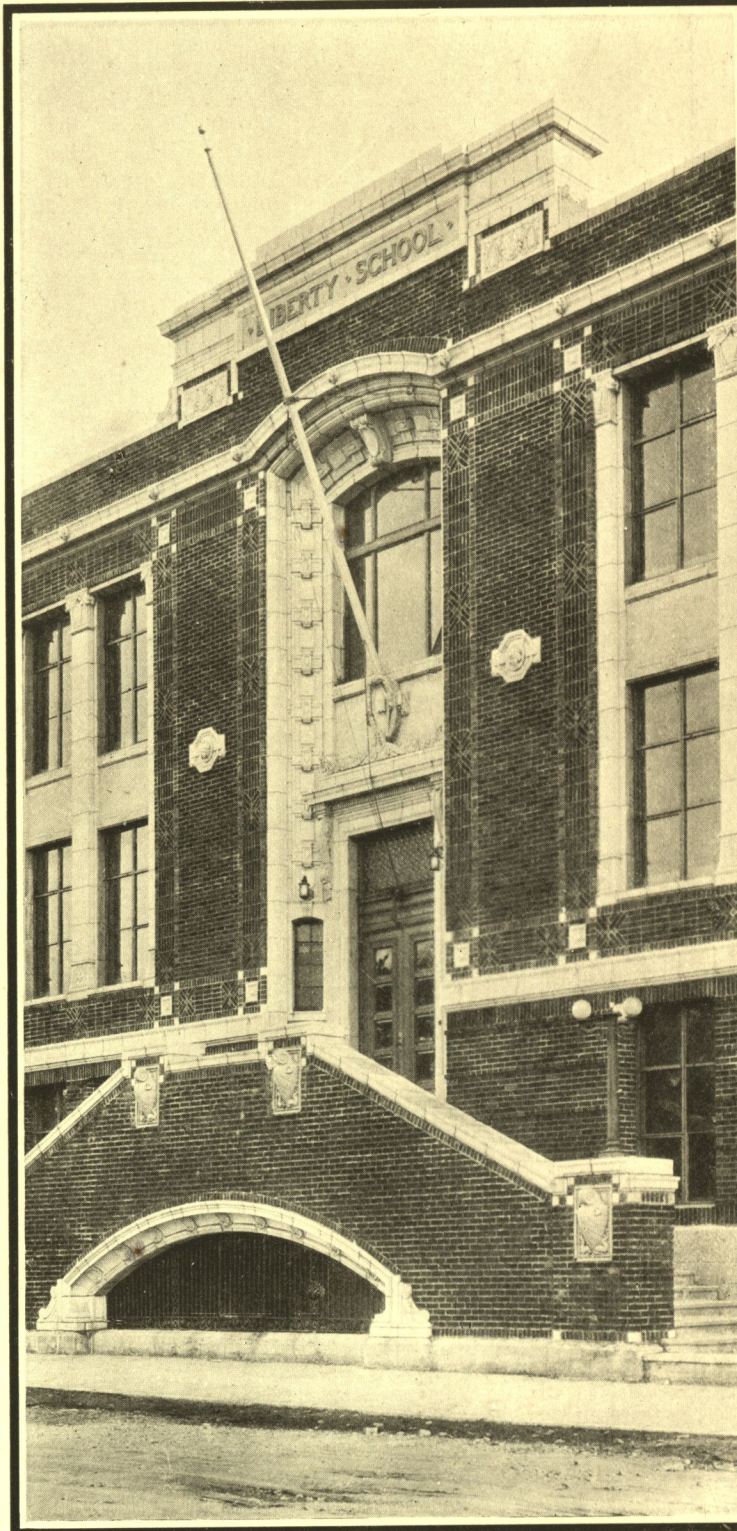


• ST. MARYS HALL •
• BOSTON COLLEGE •
• MAGINNIS & WALSH • ARCHITECTS •
• CHAS. LOGUE CO • CONTRACTORS •

I.C.Co



ST. MARYS HALL
 BOSTON COLLEGE
 MAGINNIS & WALSH ARCHITECTS
 CHAS. LOGUE CO. CONTRACTORS



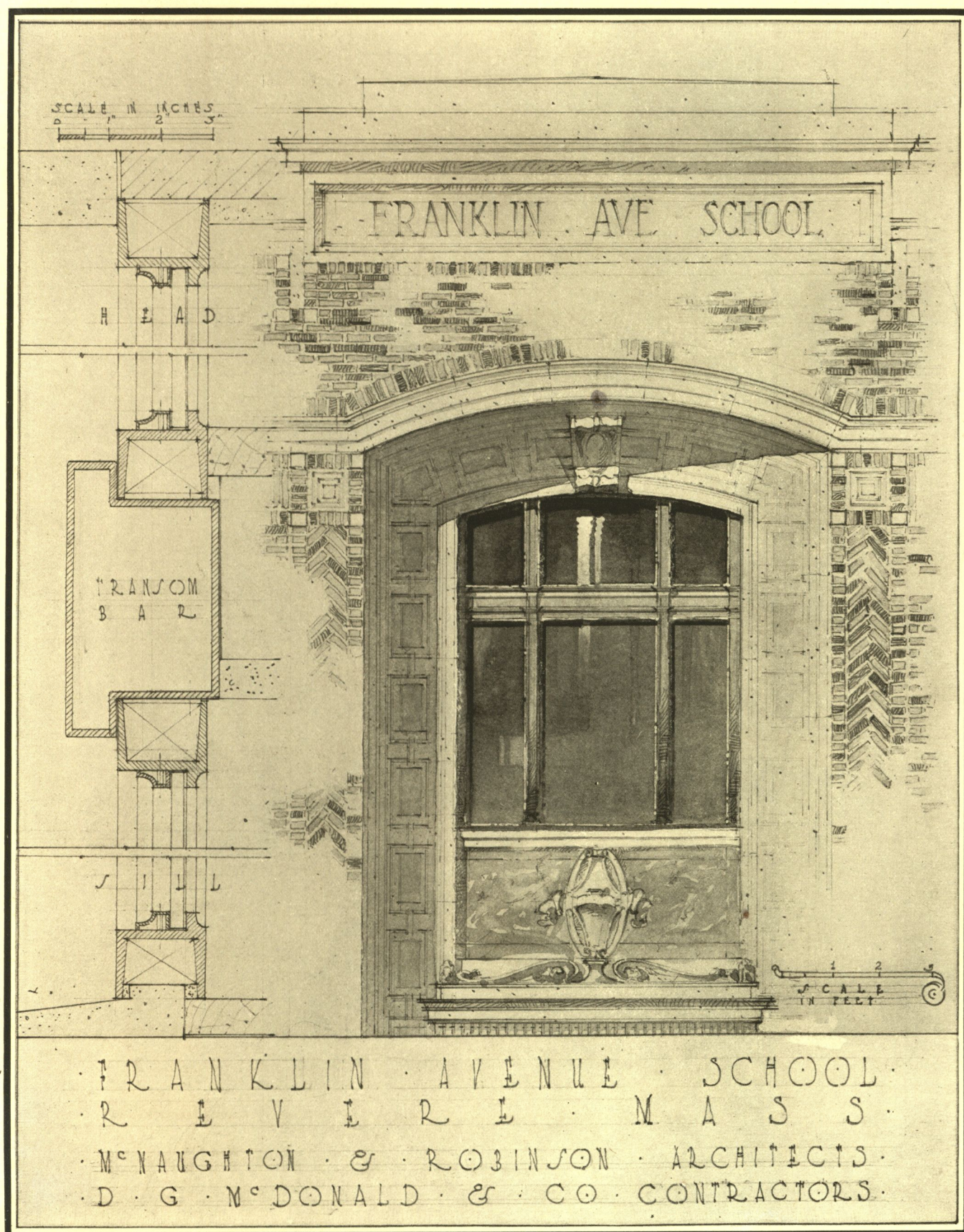
LIBERTY
SCHOOL

REVERE MASS.

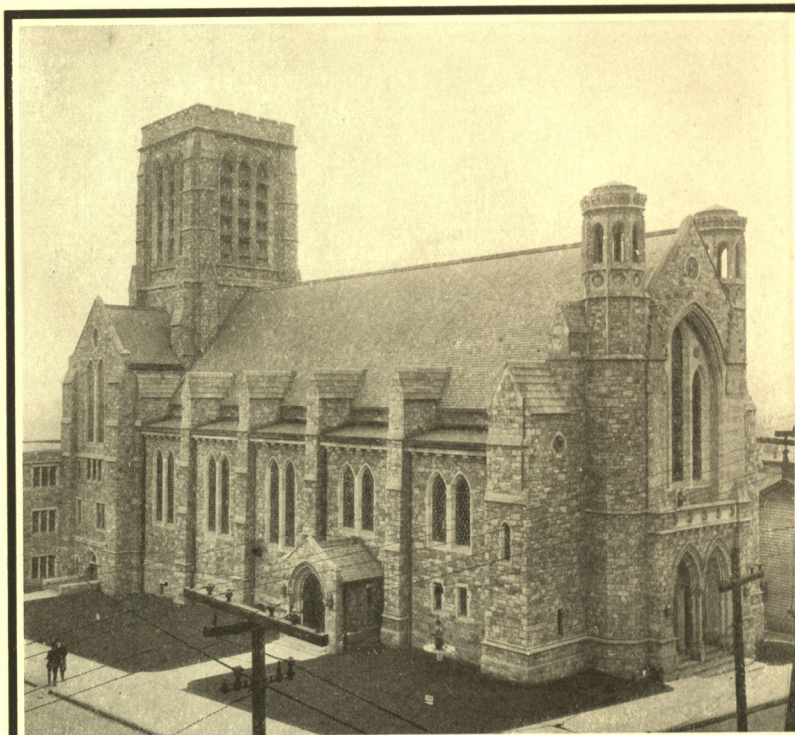


McNAUGHTON &
ROBINSON
ARCHITECTS

1900



NOTE: NAME OF SCHOOL CHANGED TO "LIBERTY SCHOOL" AFTER DETAIL MADE.



• FIRST PRESBYTERIAN • CHURCH •
 • GREENSBURG • PENNA •
 • GRAM & FERGUSON • ARCHITECTS •



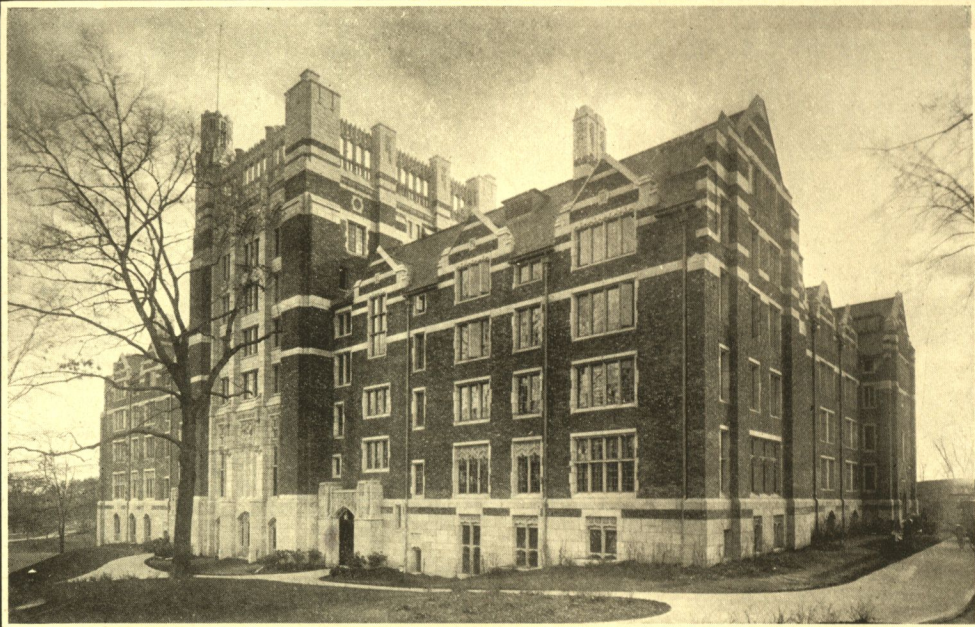
• SAINT COLMAN'S • CLEVELAND • O •
 • E. J. SCHNEIDER • ARCHITECT •

J. C. Co.

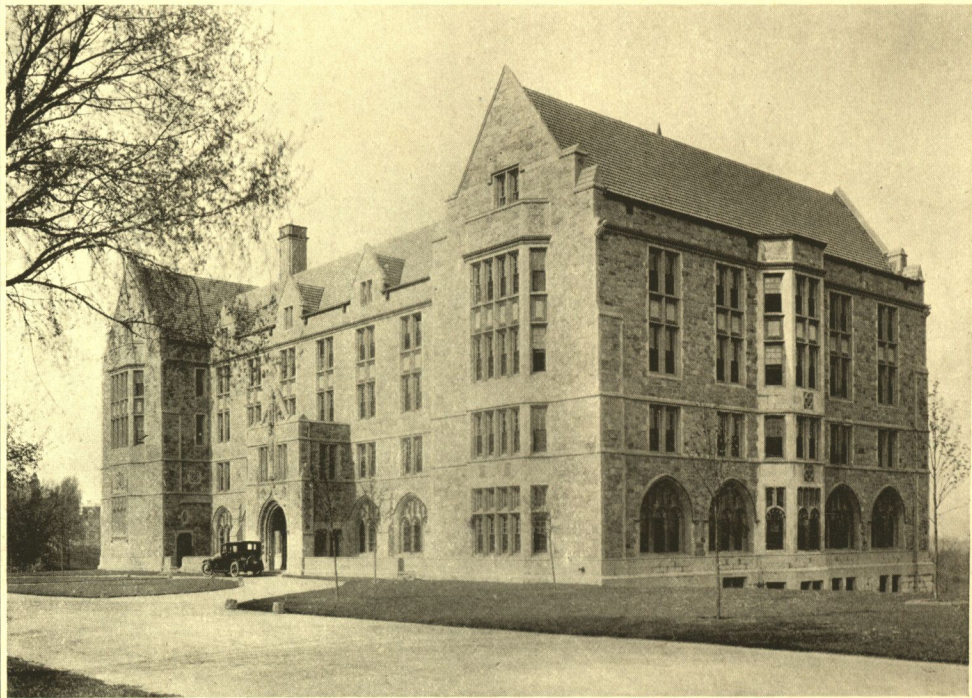


• HENNEPIN • AVENUE • METHODIST • CHURCH •
• MINNEAPOLIS • • MINNESOTA •
• HEWITT & BROWN • • ARCHITECTS •

• J. C. CO. •

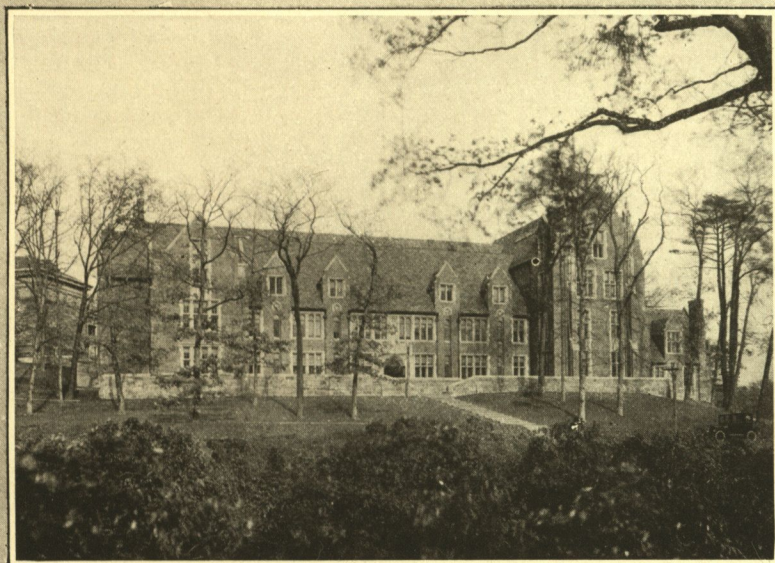


• CENTRAL • DORMITORY •
 • WELLESLEY • COLLEGE •
 • COOLIDGE & CARLSON • ARCHTS •

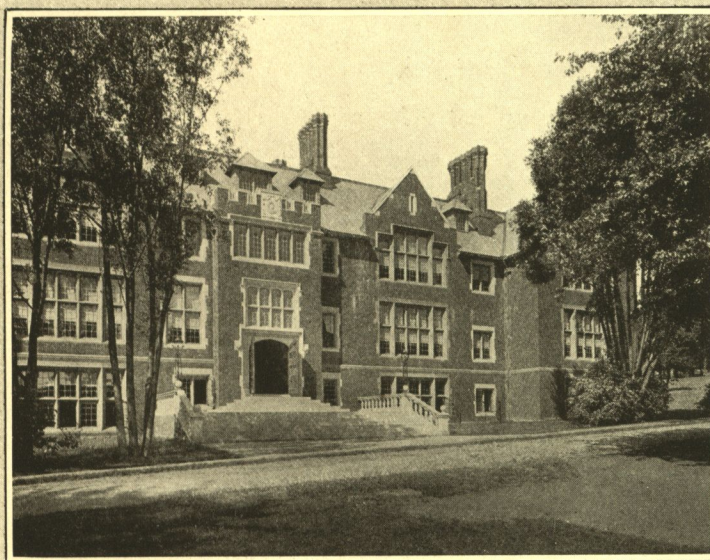


• ST. MARY'S • HALL •
 • BOSTON • COLLEGE •
 • MAGINNIS & WALSH • ARCHTS •

• I.C.E.D. •

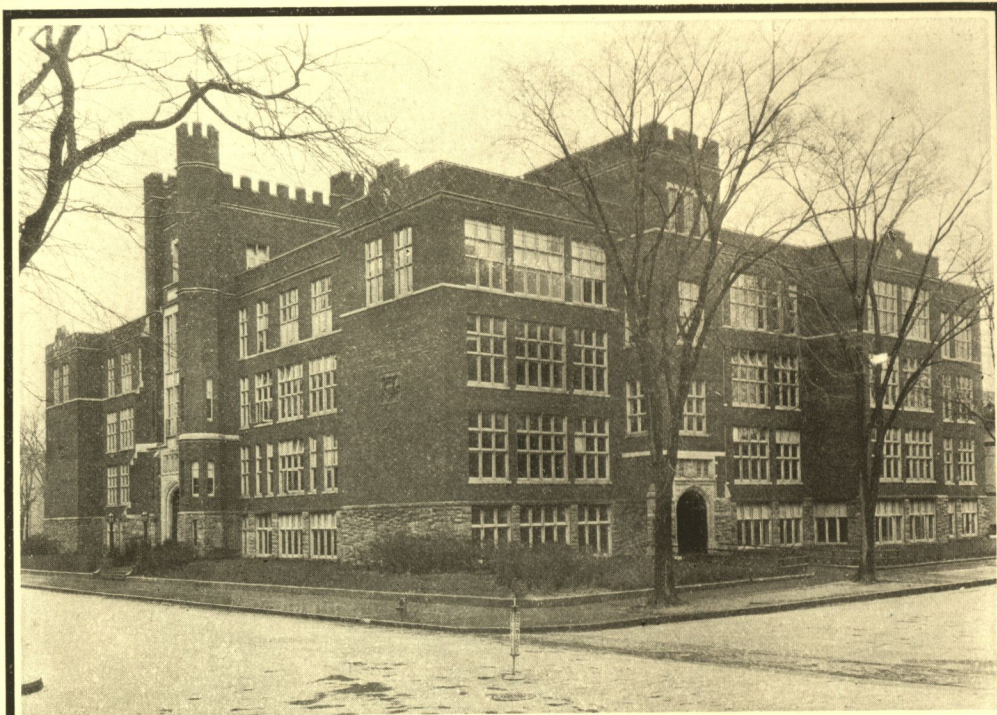


LIBERAL ARTS BUILDING.
WELLESLEY COLLEGE. WELLESLEY. MASS.
DAY & KLAUDER. ARCHITECTS.
EDWARD CORNING CO. CONTRACTORS.

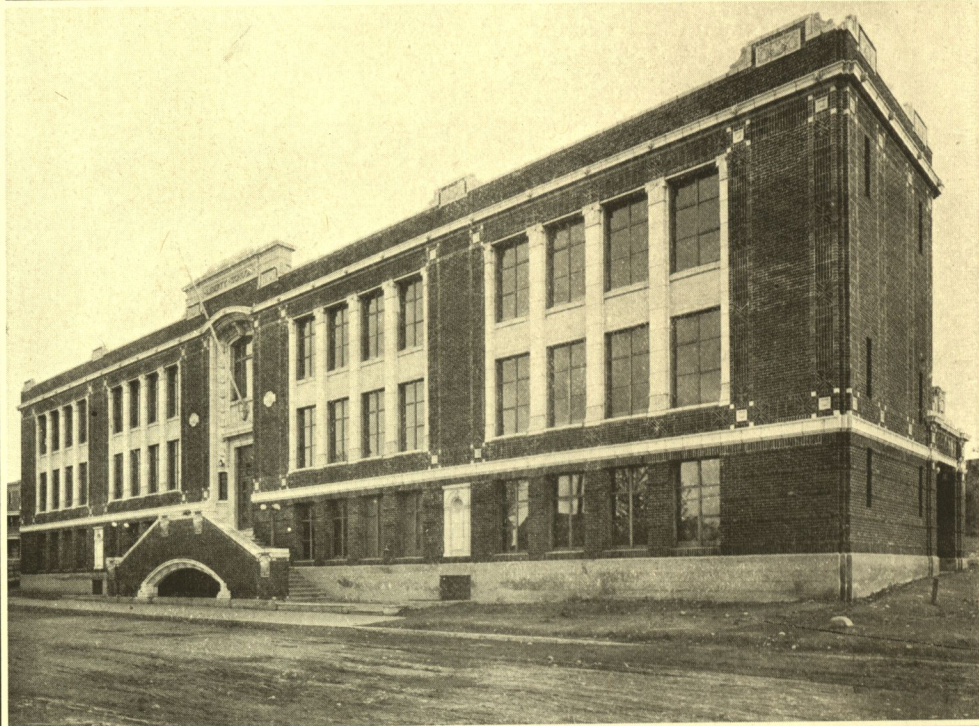


SKINNER RECITATION HALL.
MOUNT HOLYOKE. MASS.
PUTNAM & COX. ARCHITECTS.
CASPER RANGER CONSTRUCTION CO CONTRACTORS.

I. C. C.



ITHACA HIGH SCHOOL
W. H. MILLER ARCHITECT
ITHACA NEW YORK



LIBERTY SCHOOL REVERE MASS.
McNAUGHTON & ROBINSON ARCHITECTS

I. C. CO.



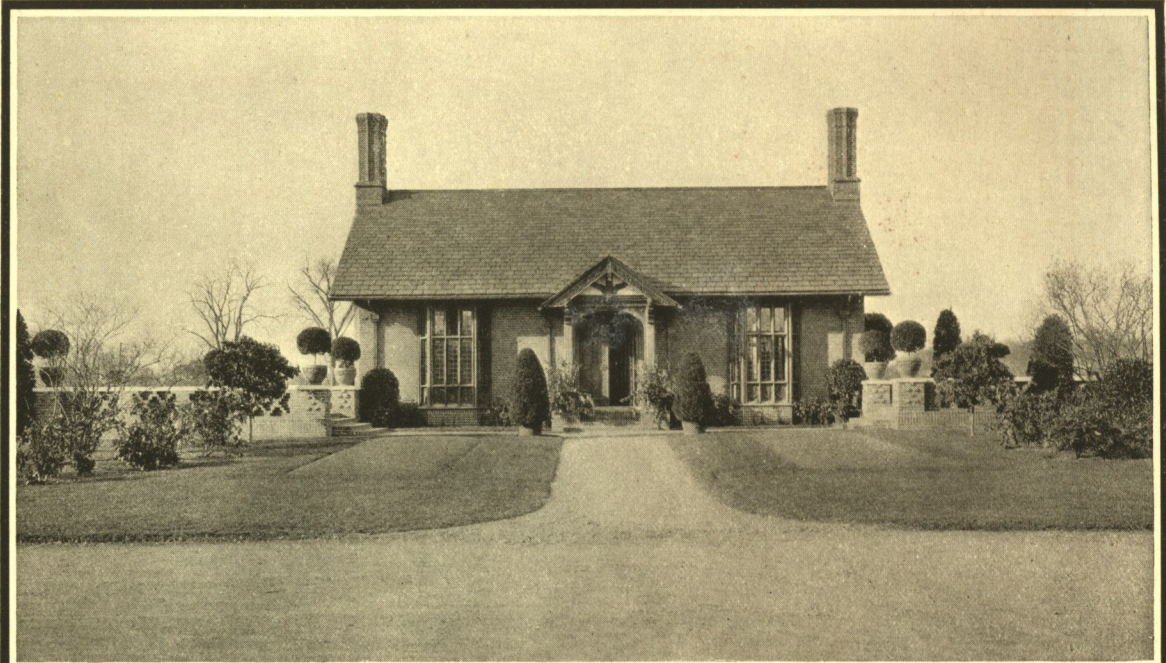
· FIRST · CONGREGATIONAL · CHURCH ·
· SOMERVILLE · MASSACHUSETTS ·

· CRAM · & · FERGUSON ·
· ARCHITECTS ·

· JOHN · M · HARTWELL ·
· CONTRACTOR ·

I.C.Co.

FRANK BETHUNE



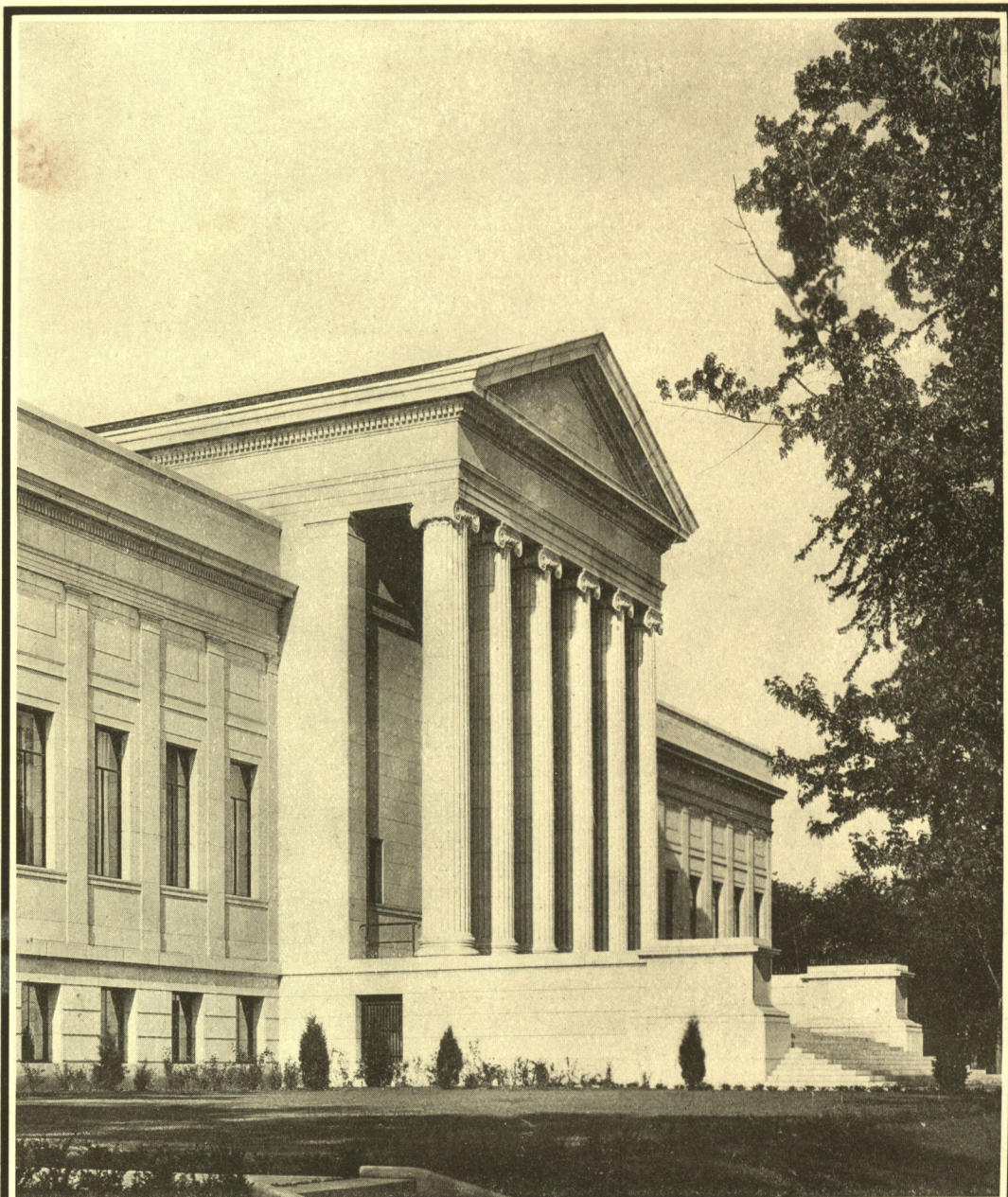
REST HOUSE
MT. AUBURN CEMETERY
MT. AUBURN MASS.

RALPH HARRINGTON DOANE
ARCHITECT

L. D. WILLCUT & SONS
CONTRACTORS

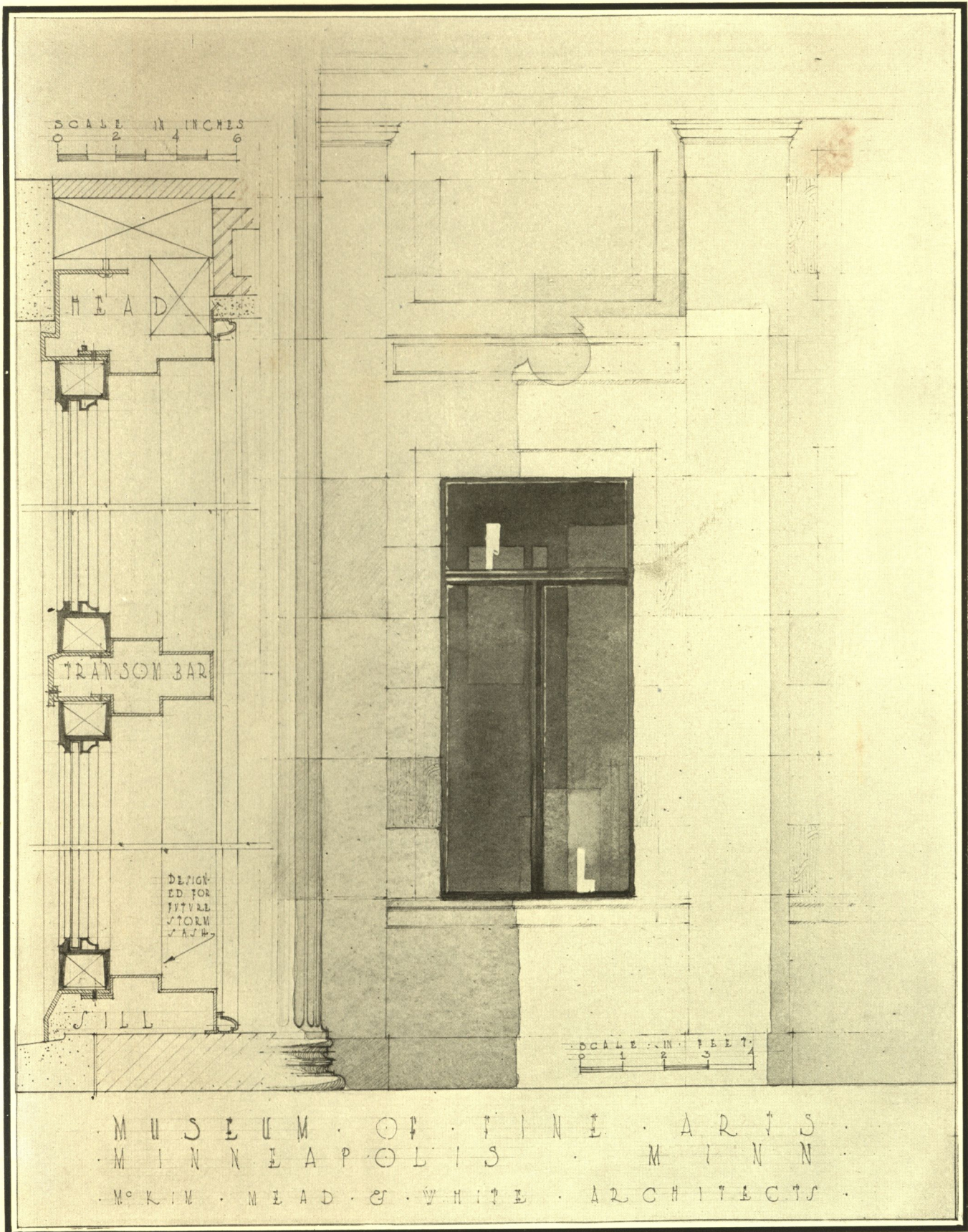
PHOTOGRAPHS AND MEASURED DRAWINGS OF PUBLIC BUILDINGS, LIBRARIES, COMMERCIAL BUILDINGS AND BANKS EQUIPPED WITH INTERNATIONAL CASEMENTS, ALSO INTERNATIONAL HOSPITAL WINDOWS

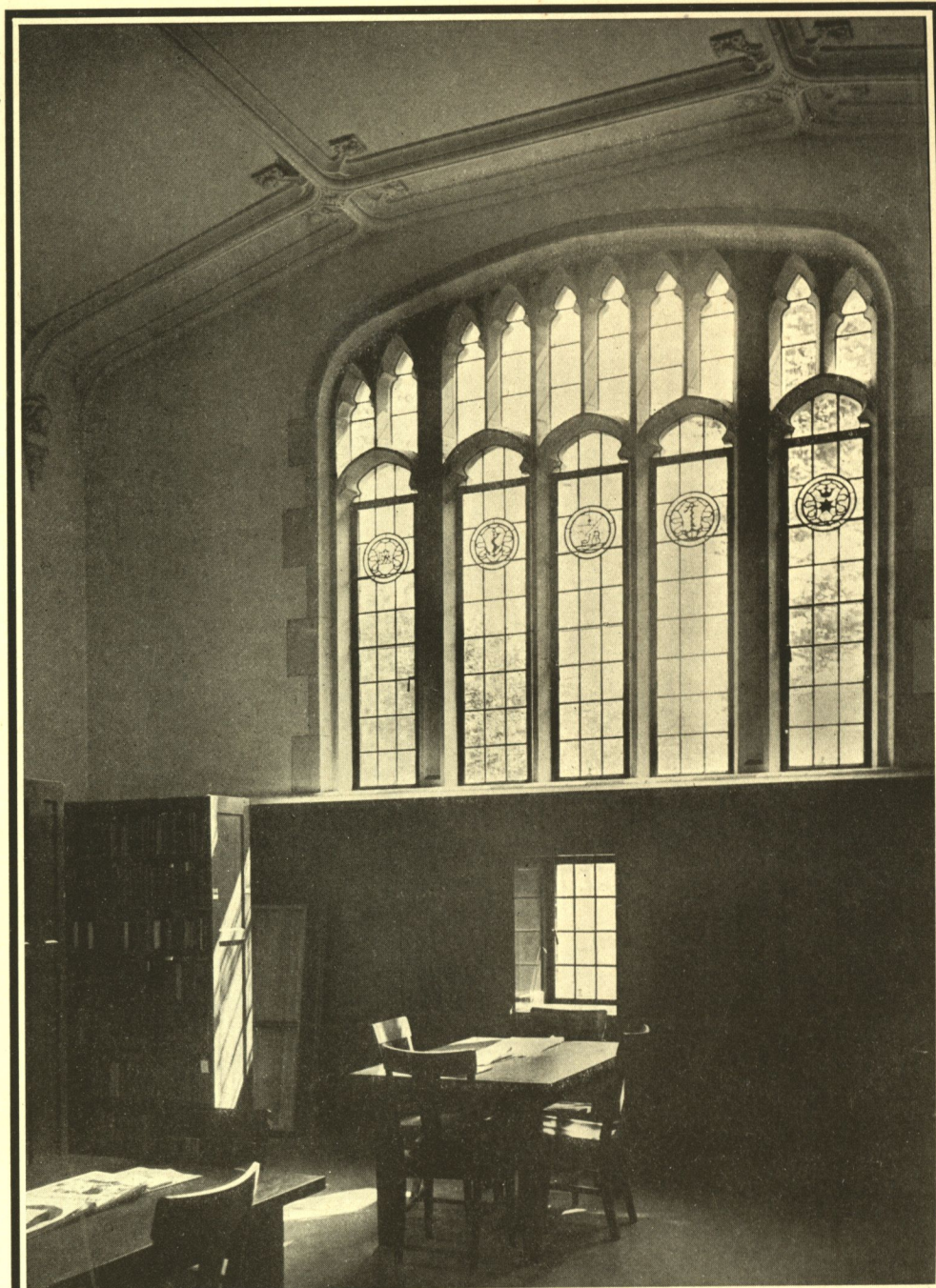
JOB	ARCHITECTS
MUSEUM OF FINE ARTS, Minneapolis, Minn.....	McKIM, MEAD & WHITE
LIBRARY, Morristown, N. J.....	EDWARD L. TILTON
LADY MACCABEES ASSOCIATION, Port Huron, Mich.....	SCHMIDT, GARDEN & MARTIN
LAIRD NORTON CO. OFFICE BUILDING, Winona, Minn.....	SCHMIDT, GARDEN & MARTIN
LEVER BROS. OFFICE BUILDING, Cambridge, Mass.....	THOMAS W. JAMES
ELKS CLUB, Jersey City, N. J.....	WILLIAM NEUMAN
GINTER CO.'S RESTAURANT, Boston, Mass.....	G. F. SHEPARD
SERVICE STATION, BOSTON EDISON CO.....	BIGELOW & WADSWORTH
NATIONAL UNION BANK, Boston, Mass.....	BLACKALL, CLAPP & WHITEMORE
STEARNS COUNTY COURT HOUSE, St. Cloud, Minn.....	TOLTZ, KING & DAY
COMMERCIAL UNION BLDG., San Francisco, Cal.....	G. W. KELHAM & K. MACDONALD
GUARANTY TRUST CO., New York City.....	CROSS & CROSS
GREENWICH TRUST CO., Greenwich, Conn.....	ALFRED C. BOSSOM
TRENTON BANKING CO., Trenton, N. J.....	DENNISON & HIRONS
BROOKLINE TRUST CO., Brookline, Mass.....	THOMAS W. JAMES
BANK OF JAMESTOWN, Jamestown, N. Y.....	ALBERT J. BODKER
LIBERTY BANK, Jamestown, N. Y.....	JOHNSON & FORD
SECURITY TRUST CO., Bakersfield, Cal.....	F. M. MEYER
THIRD NATIONAL BANK, Scranton, Pa.....	EDWARD LANGLEY
EAST BROOKLYN SAVINGS BANK, Brooklyn, N. Y.....	KOCH & WAGNER
FEDERAL RESERVE BANK, Cleveland, Ohio.....	WALKER & WEEKS
COWELL & HUBBARD BUILDING, Cleveland, Ohio.....	WALKER & WEEKS
DODGE BROS., TOWELL BLDG., Cleveland, Ohio.....	H. E. SHIMMIN
MALDEN SAVINGS BANK, Malden, Mass.....	MONKS & JOHNSON
SCOTT COUNTY SAVINGS BANK, Davenport, Ia.....	CLAUSEN & KRUSE
MORRIS PLAN BANK, Cleveland, Ohio.....	FRANZ C. WARNER
FARMERS & MERCHANTS TRUST CO., Cape Charles, Va.....	BENTON & BENGTON
UNION MARKET NATIONAL BANK, Watertown, Mass.....	DENNISON & HIRONS
COLONIAL TRUST CO., Trenton, N. J.....	FOWLER, SEAMAN & CO.
PRIVATE WARD HOSPITAL, Wilkes-Barre, Pa.....	STURDEVANT & POGGI
JACKSON PARK HOSPITAL, Chicago, Ill.....	ERIC E. HALL
GENERAL HOSPITAL, Augusta, Maine.....	WM. G. BUNKER, ED. F. STEVENS, ASSOC.
HOSPITAL, Highland Park, Ill.....	R. E. PINGREY
HOSPITAL, Madison, S. D.....	P. OLIVER MOE
ILLINOIS CENTRAL R. R. HOSPITAL, Chicago, Ill.....	SCHMIDT, GARDEN & MARTIN



• MINNEAPOLIS • ART • MUSEUM •
 • MINNEAPOLIS • MCKIM • MEAD & WHITE •
 • MINNESOTA • ARCHITECTS •

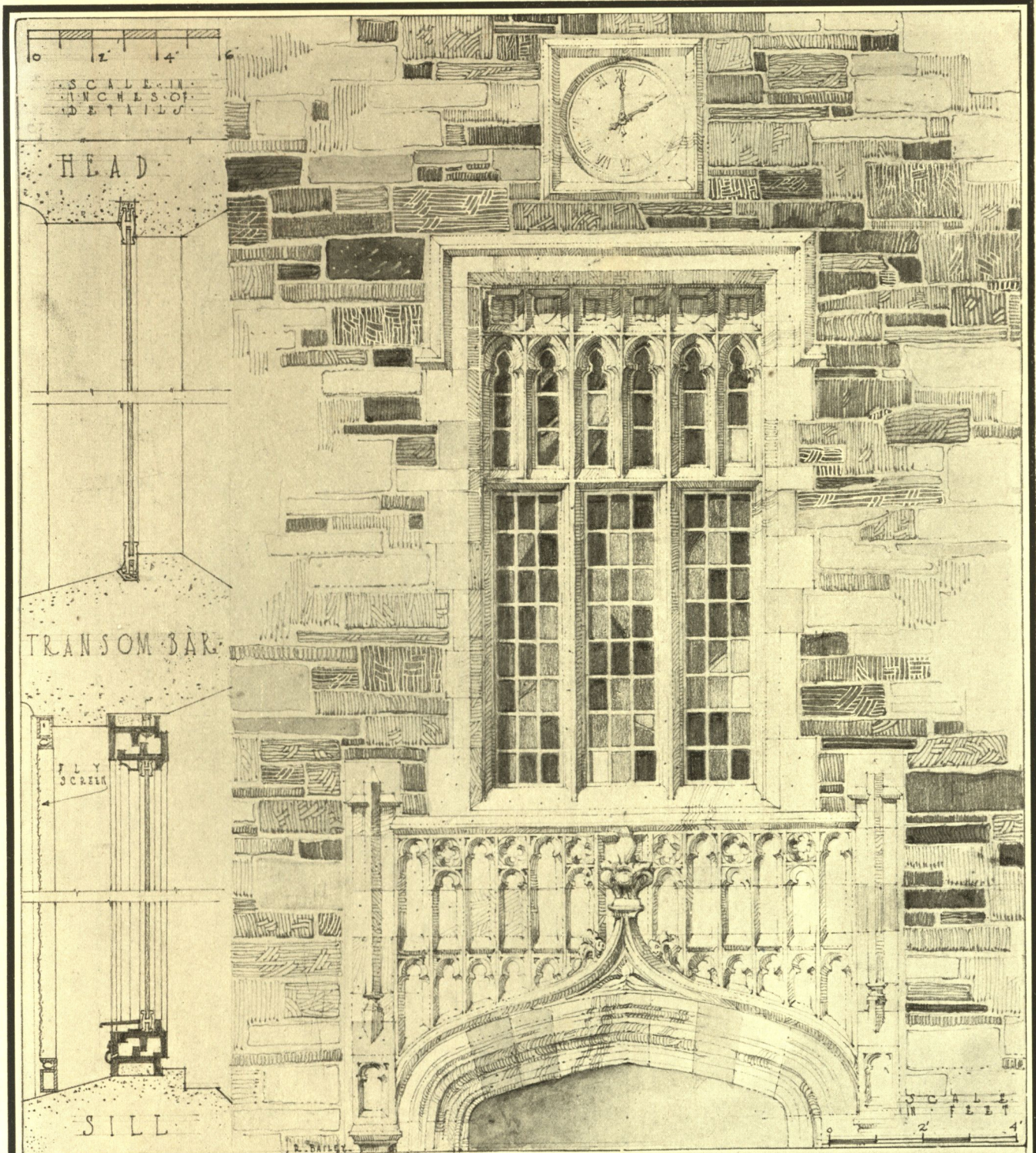
J. L. CO.





MORRISTOWN · LIBRARY
MORRISTOWN · N · Y
E · L · TILTON · ARCHITECT

· J · E · CO ·



MORRISTOWN LIBRARY
 MORRISTOWN NEW JERSEY
 EDWARD L. TILTON ARCHITECT

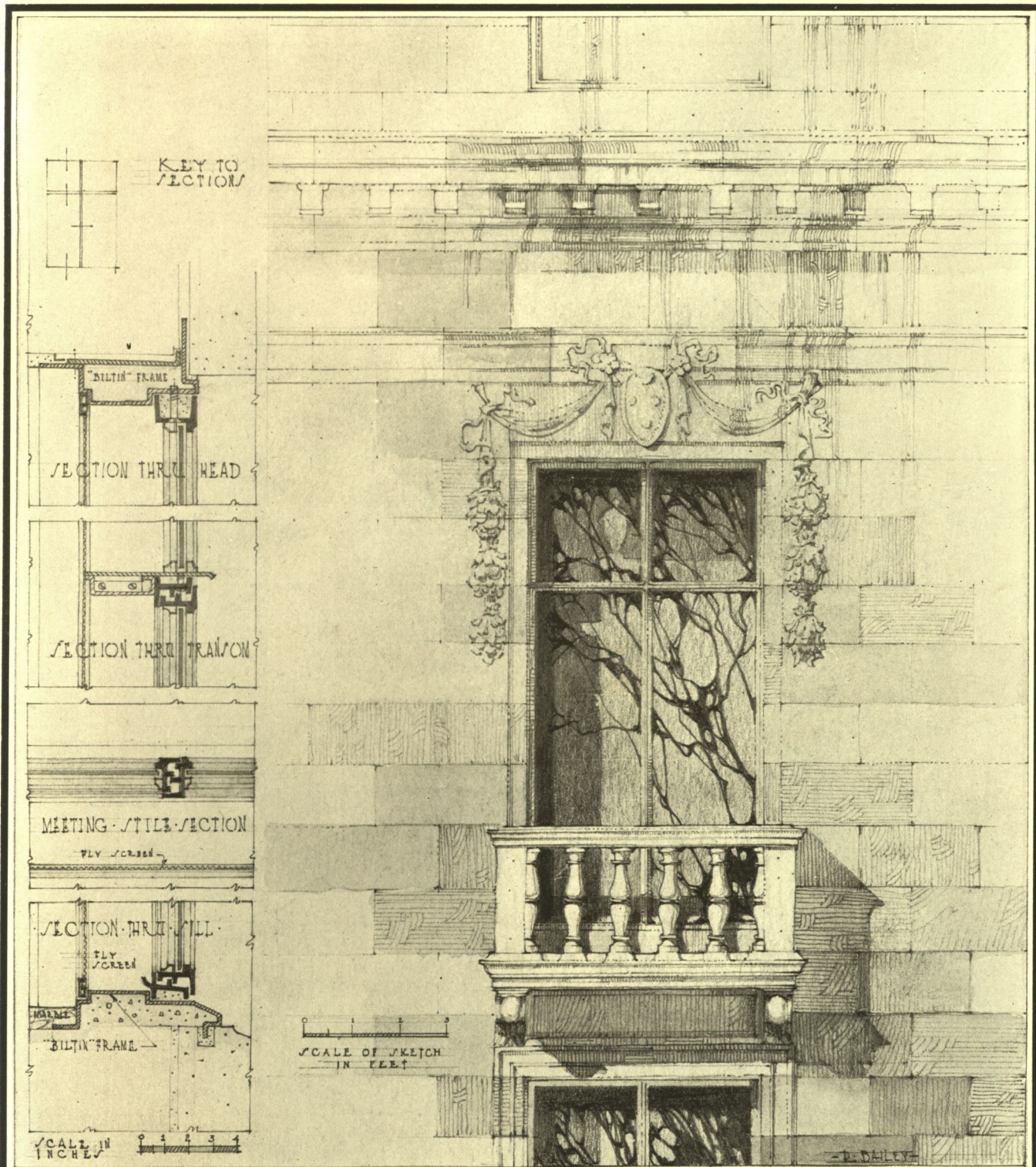


STURGIS BROS
 CONTRACTORS

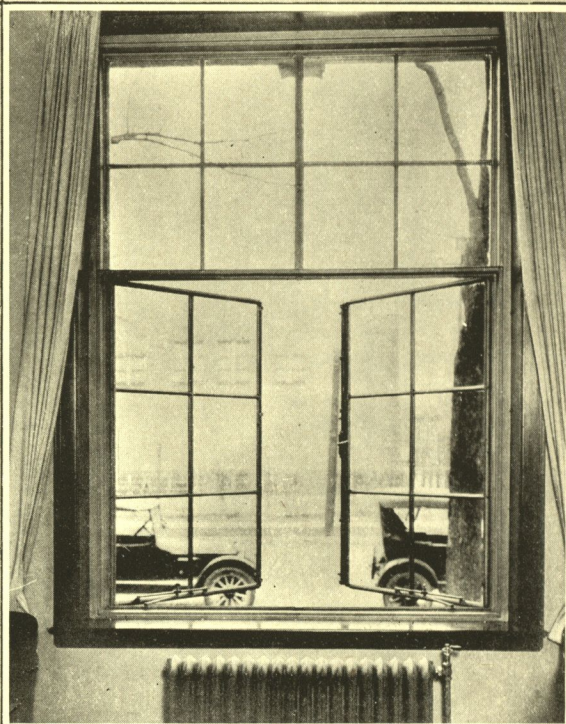


• HOME • OFFICE • LADY • MACCABEES •
• FORT • HURON • M I C H •
• SCHMIDT • GARDEN • & MARTIN • ARCHTS •

• J. E. CO. •



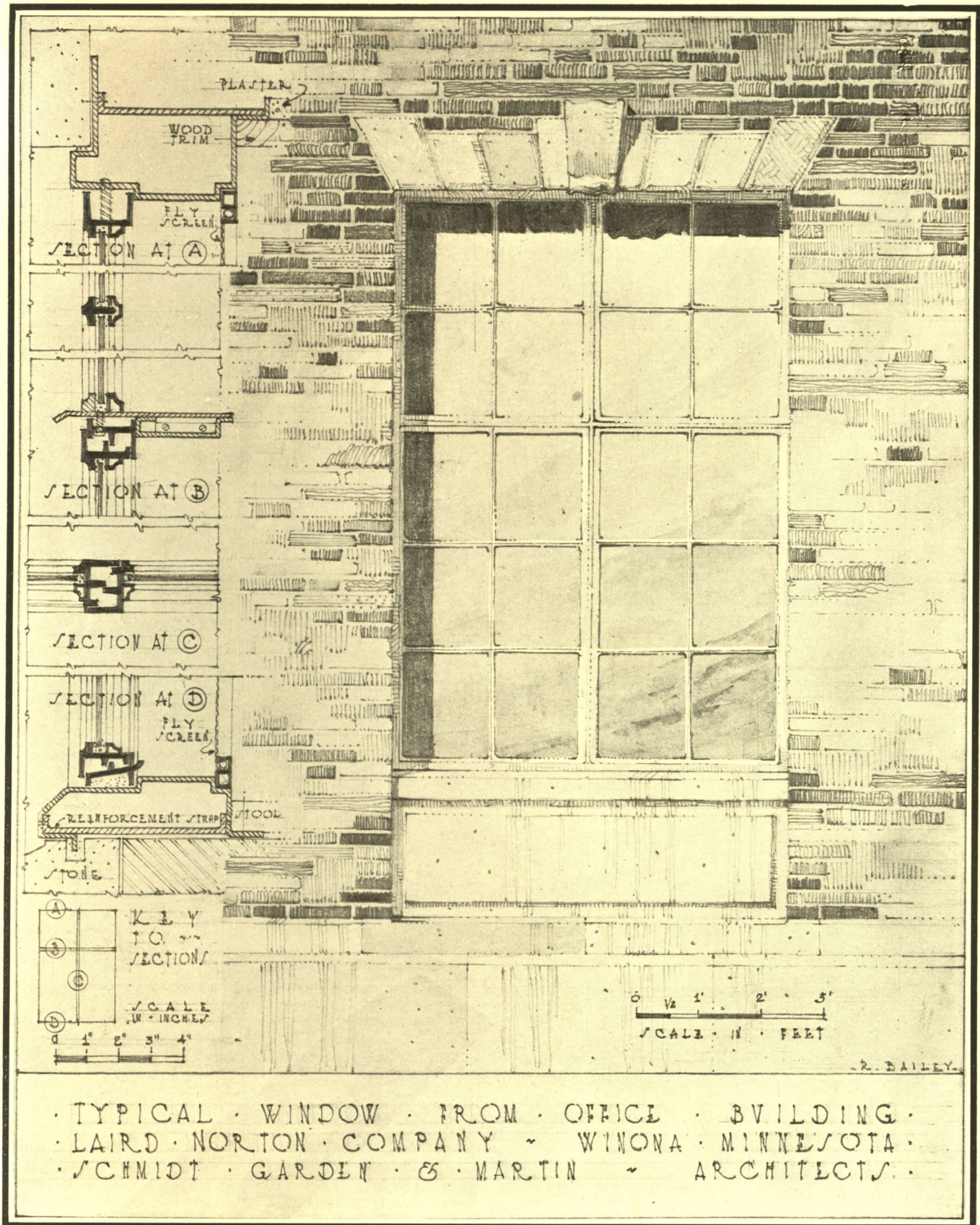
HOME OFFICE BUILDING FOR THE WOMENS BENEFIT ASSOC.
 OF THE MACCABEES.
 SCHMIDT GARDEN & MARTIN.
 ARCHITECTS.
 PORT HURON MICH.
 C. A. MOSES CONSTRUCTION CO.
 CONTRACTORS.



• OFFICE BUILDING •
OF
• LAIRD NORTON CO. •
• WINONA • • MINN. •

RICHARD E. SCHMIDT,
GARDEN & MARTIN
ARCHITECTS.

I. C. C. O.





• MUSEUM OF FINE ARTS •
• MINNEAPOLIS • • MINN •
• MCKIM MEAD & WHITE •
ARCHITECTS
J. & W. A. ELLIOTT CONTRACTORS

I.C.Co.



• LEVER BROTHERS • CO •
• CAMBRIDGE • MASS •
• THOMAS W JAMES • ARCHITECT •

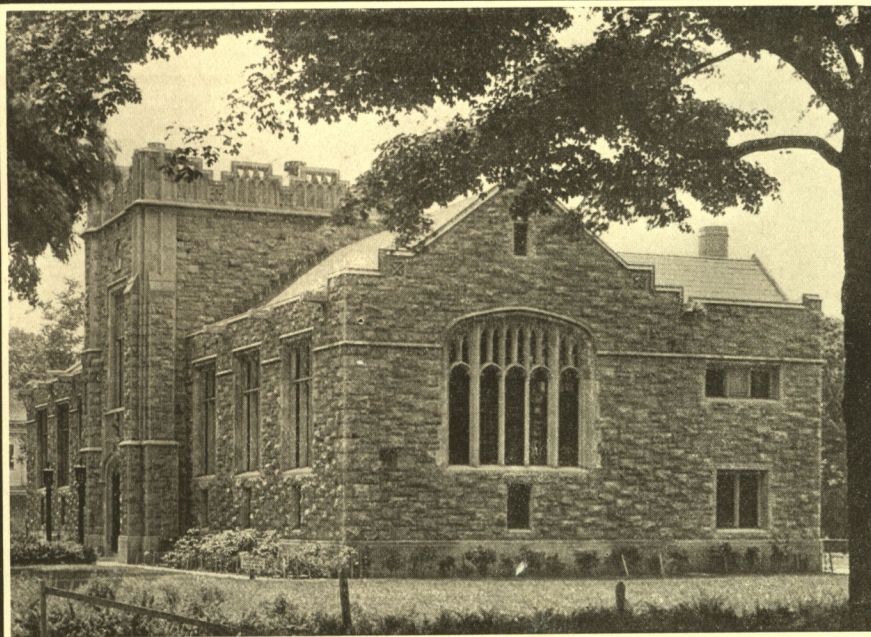
.I.C.Co.



ELKS CLUB

? JERSEY CITY ? ? NEW JERSEY ?
 ? WILLIAM NEUMANN ARCHITECT ?
 ? DE RISO BROS INC. CONTRACTORS ?

J.C.Co



• MORRISTOWN • LIBRARY •
 • MORRISTOWN • N. J. •
 • E. L. TILTON • ARCHITECT •



• GINTER COMPANY •
 • BOSTON • MASS •
 • G. F. SHEARD • ARCHT •

11-C-20



· STEARNS · COUNTY · COURT · HOUSE ·
· ST. CLOUD · MINN. ·

· TOLTZ · KING · & · DAY ·
· CHARLES · SKOGLUN ·

· ARCHITECTS ·
· CONTRACTOR ·

I.C.C.



* NATIONAL UNION BANK BUILDING *
 * BOSTON * * * MASSACHUSETTS *
 * BLACKALL, CLAPP & WHITEMORE * * ARCHITECTS *
 * FRED T. LEY COMPANY * * CONTRACTORS *

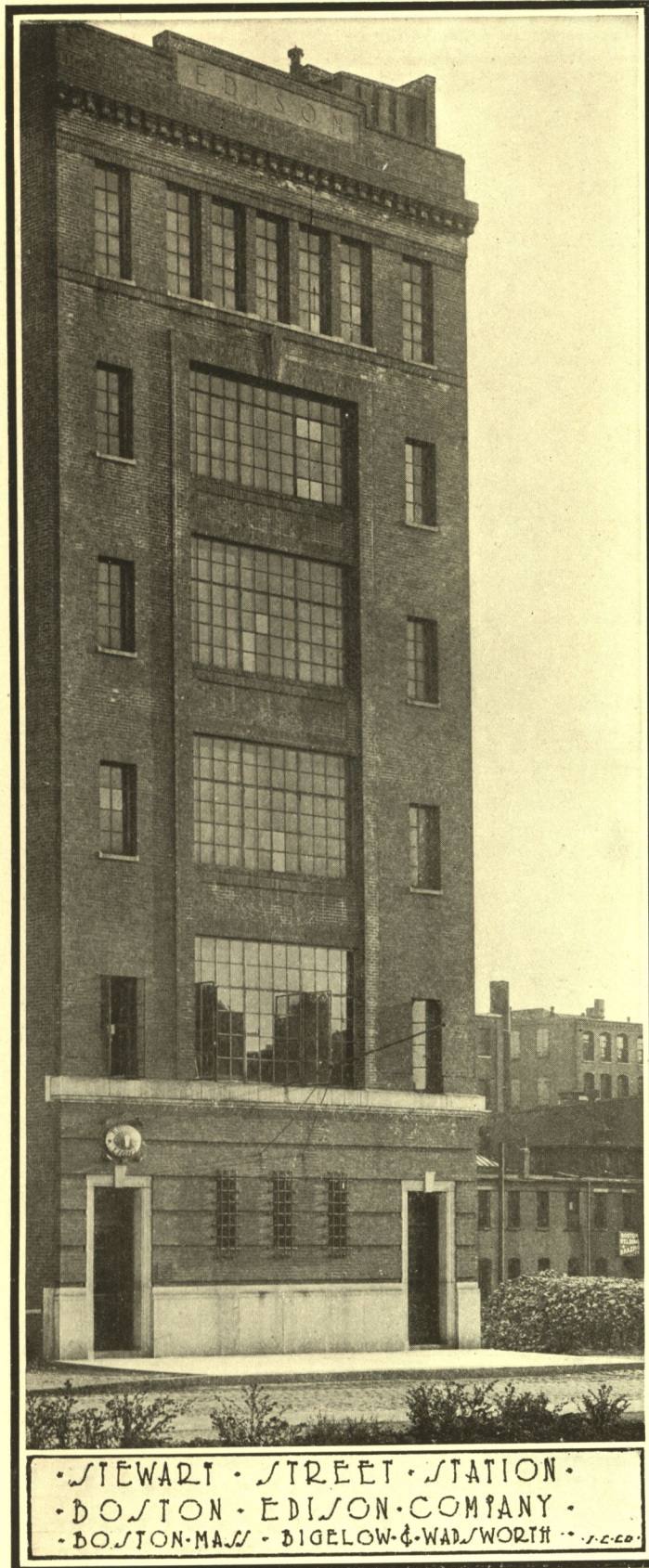
I.C.C.O.

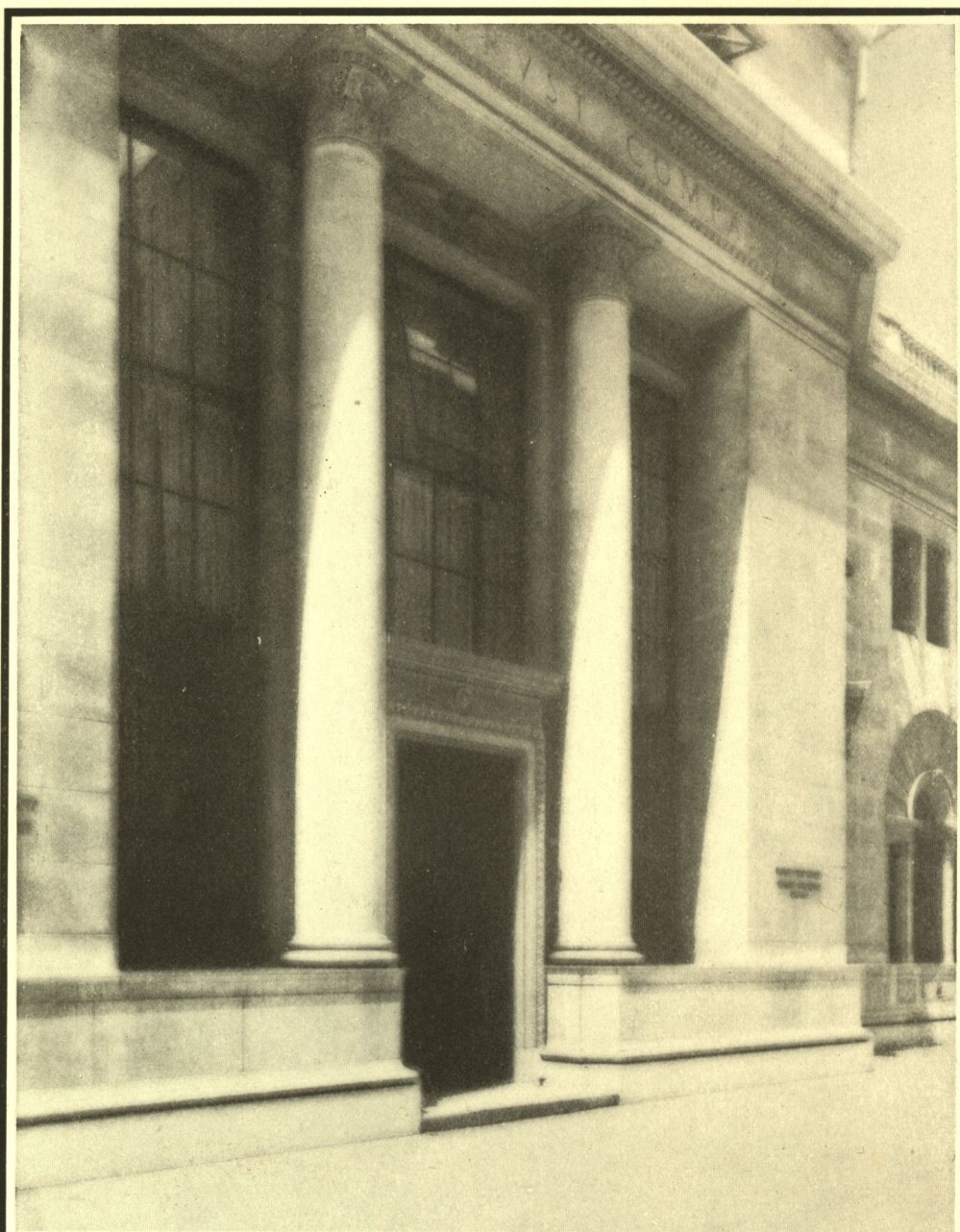


CALIFORNIA COMMERCIAL UNION BUILDING
SAN FRANCISCO CALIFORNIA

G. W. KELHAM & K. MAC DONALD ARCHITECTS
P. J. WALKER COMPANY CONTRACTORS

I.C. Co.





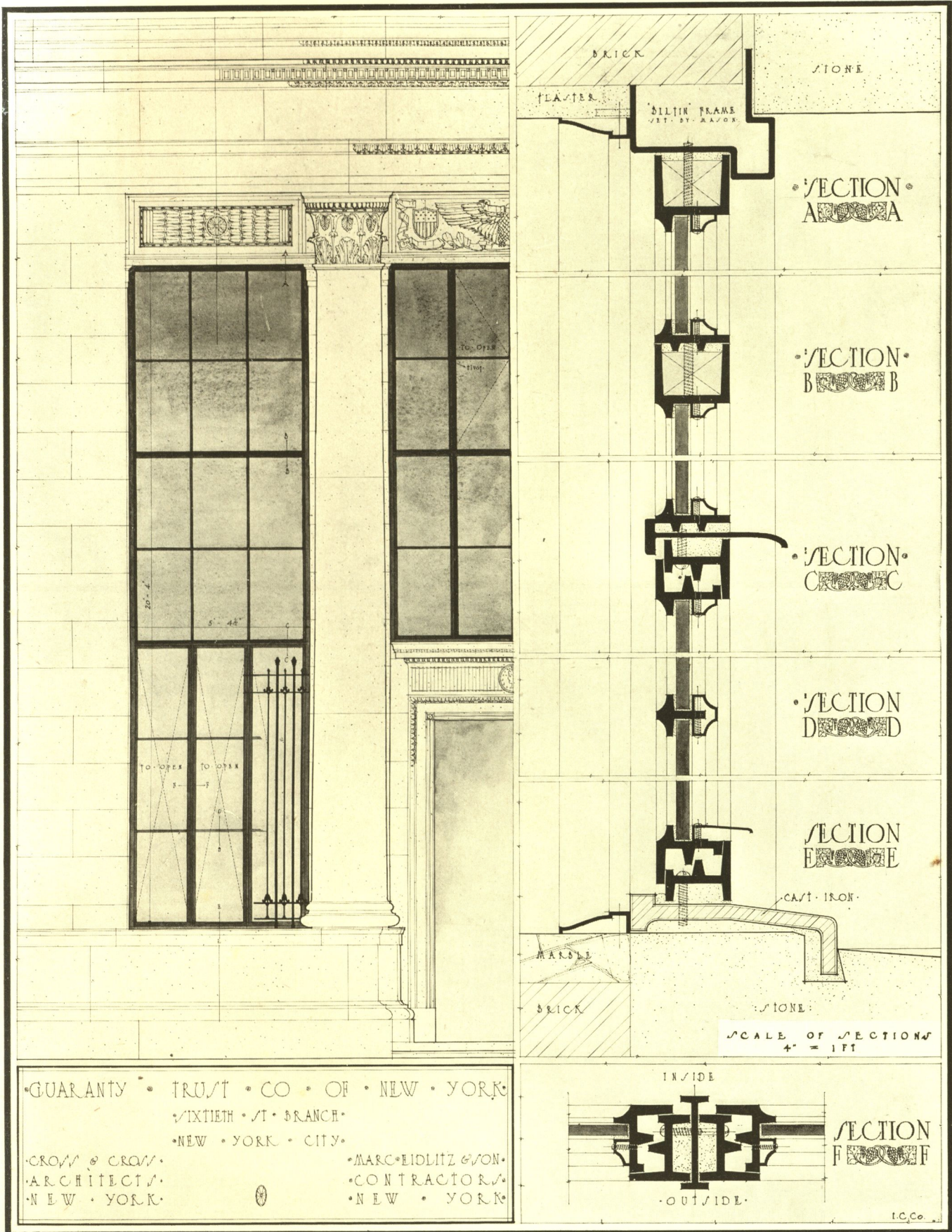
GUARANTY TRUST CO · 60TH ST BRANCH · NEW YORK



CROSS & CROSS
ARCHITECTS



I.C.Co.



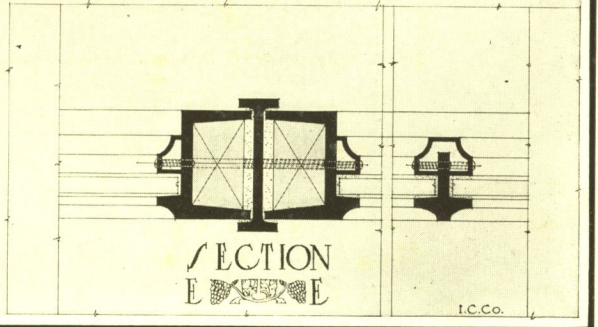
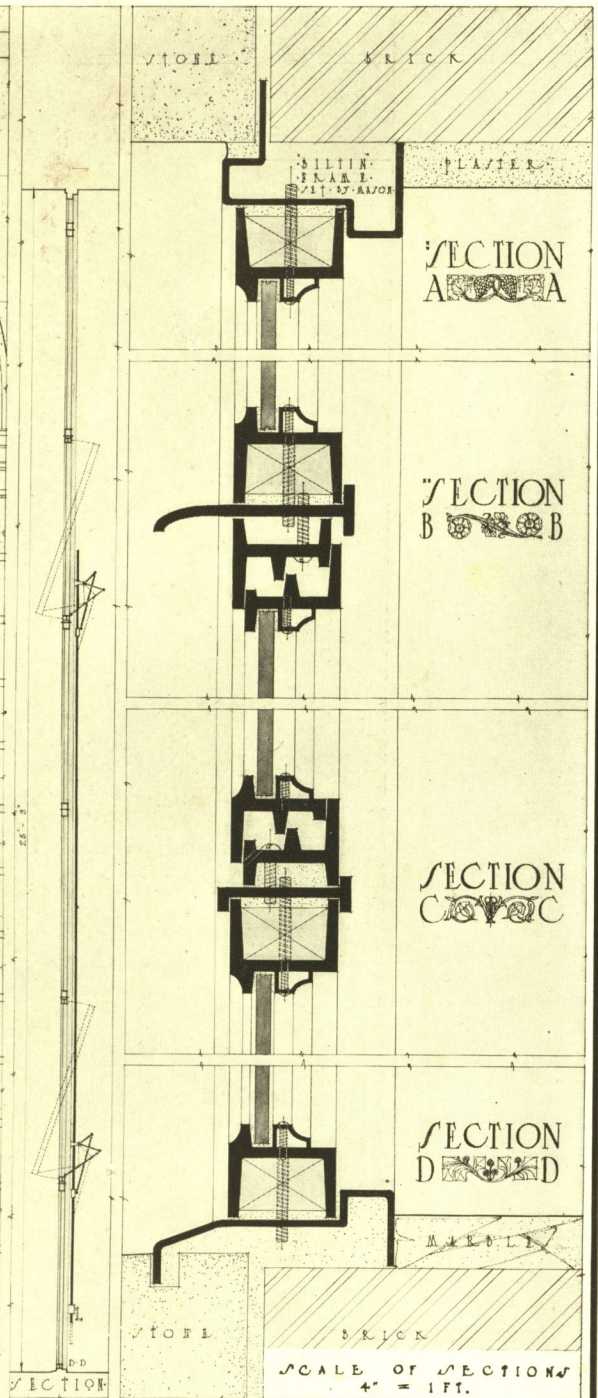
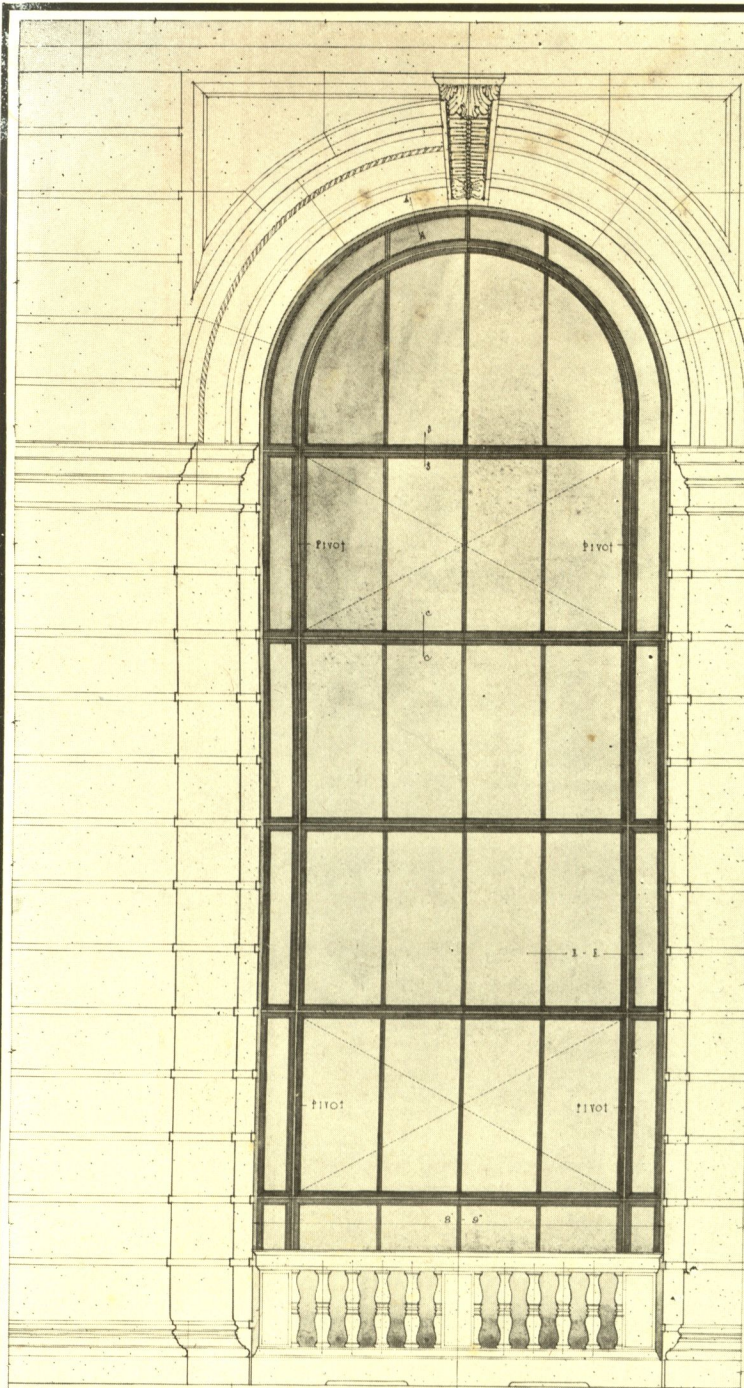


· GREENWICH · TRUST · COMPANY ·
· GREENWICH · CONNECTICUT ·

ALFRED · C · BOSSOM ·

A R C H I T E C T

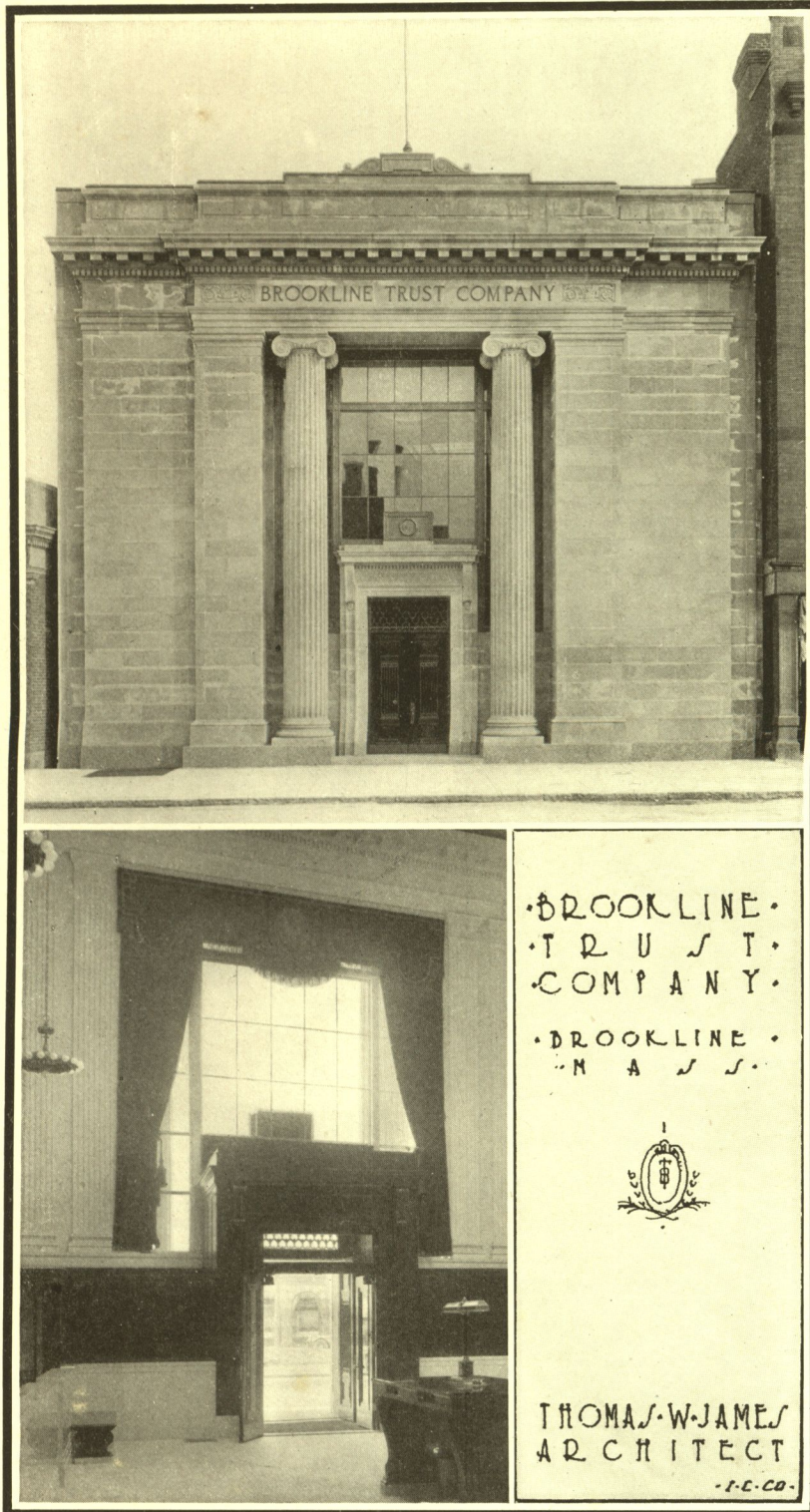
I.C.Co.



GREENWICH TRUST COMPANY
 GREENWICH CONNECTICUT
 ALFRED C. BOSSOM ARCHITECT
 CHAS. T. WILLS, INC. CONTRACTORS
 NEW YORK NEW YORK

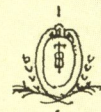


• TRENTON • BANKING • COMPANY •
• TRENTON • NEW • JERSEY •
• DENNISON • & • HIRONS • ARCHITECTS • J.C.C.



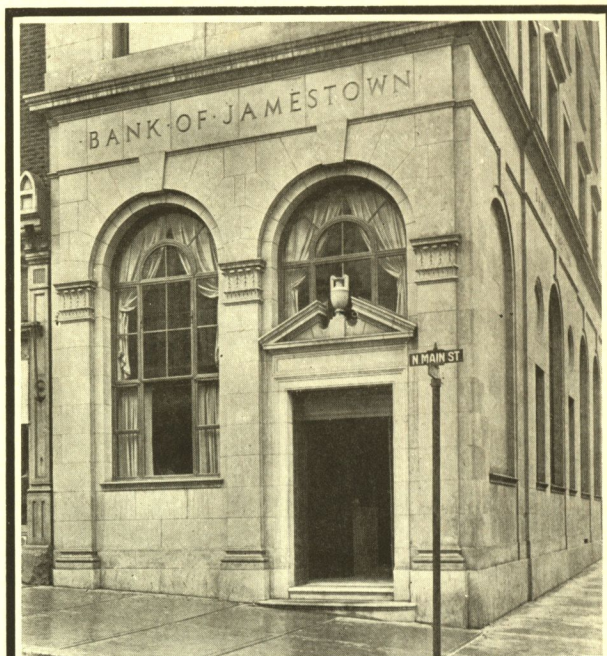
BROOKLINE.
T R U S T.
C O M P A N Y.

BROOKLINE.
M A S S.

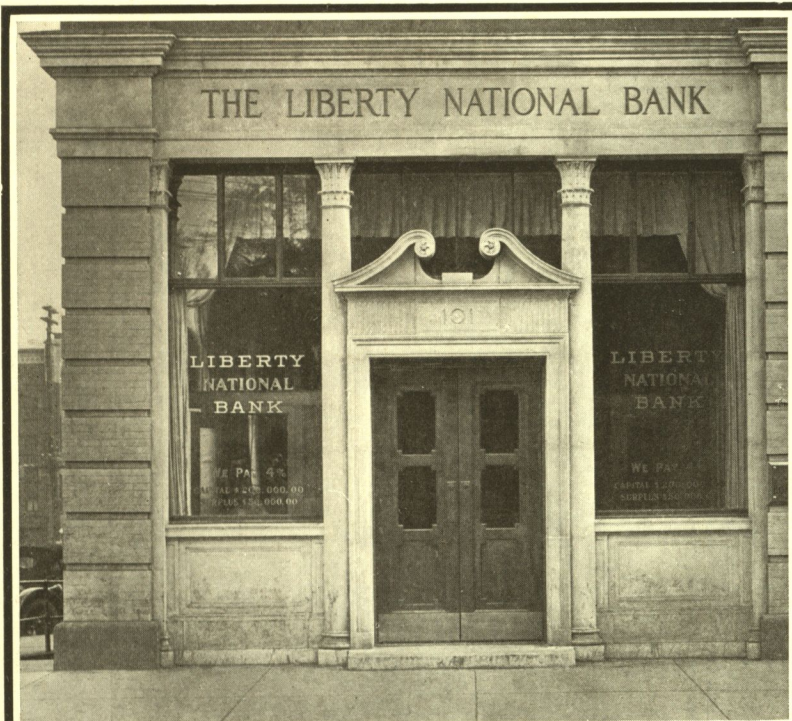


THOMAS W. JAMES
ARCHITECT

- F. C. CO. -



BANK OF JAMESTOWN.
 JAMESTOWN N. Y.
 A. J. BODKER ARCHITECT.
 1900.



• THE LIBERTY NATIONAL BANK •
 • JAMESTOWN • NEW YORK •
 • JOHNSON & FORD ARCHITECTS •

J. E. CO.



· UNION · MARKET · NATIONAL · BANK ·
 · WATERTOWN · · MASS. ·
 · DENNISON · & · HIRONS · · ARCHITECTS ·
 · WILLIAM · H. · ILLIFFE · · CONTRACTOR ·



· EAST · BROOKLYN · SAVINGS · BANK ·
 · BROOKLYN · · NEW · YORK ·
 · KOCH · & · WAGNER · · ARCHITECTS ·
 I.C. CO.



SECURITY TRUST CO.
 BAKERSFIELD CALIFORNIA
 F. M. MEYER ARCHITECT



THIRD NATIONAL BANK
 SCRANTON PENNA.
 EDWARD LANGLEY ARCHITECT

I.C.CO.



FEDERAL RESERVE BANK
CLEVELAND OHIO

WALKER & WEEKS ARCHITECTS
JOHN GILL & SONS CONTRACTORS

I.C.Co.

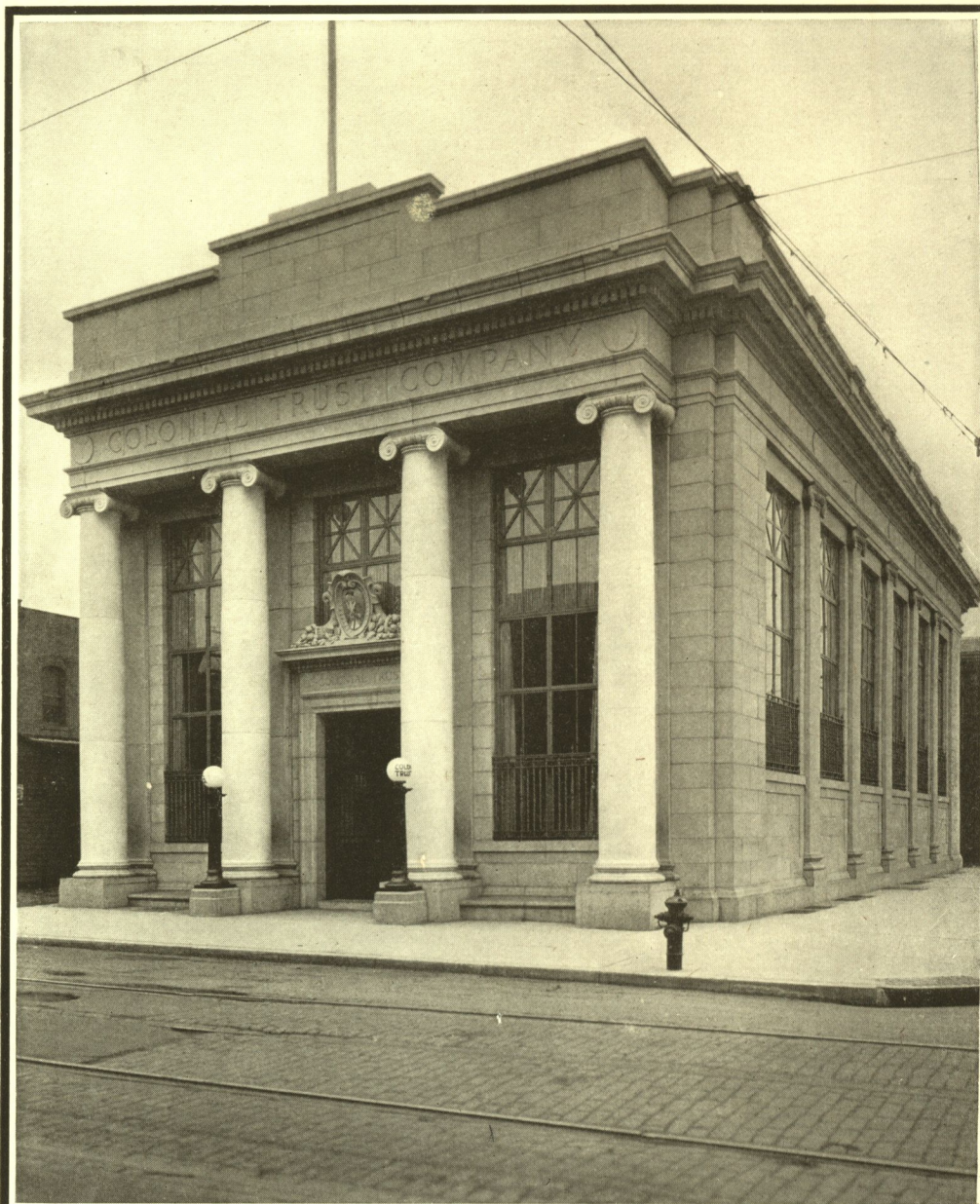


• COWELL & HUBBARD BUILDING •
 • CLEVELAND • • • OHIO •
 • WALKER & WEEKS • ARCHITECTS •
 • JOHN GILL & SONS • CONTRACTORS •



• DODGE BROS (T.H. TOWELL) BUILDING •
 • CLEVELAND • • • OHIO •
 • H. E. SHIMMIN • ARCHITECT •
 • MASTERS & MULLEN CONSTRUCTION CO •
 • CONTRACTORS •

I.C.Co.



· COLONIAL · TRUST · COMPANY ·
· TRENTON · NEW · JERSEY ·

· FOWLER · SEAMAN · & · COMPANY · · ARCHITECTS ·
I.C.C.O.



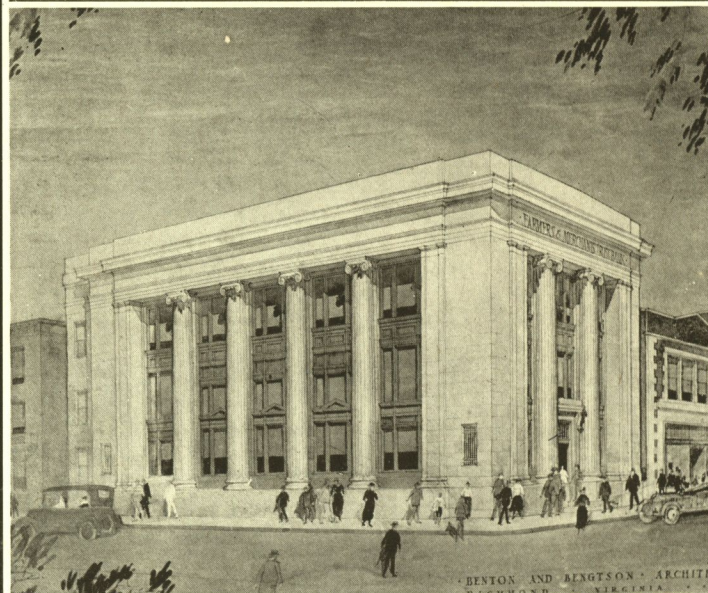
SCOTT COUNTY SAVINGS BANK.
DAVENPORT. IOWA.
CLAUSEN & KRUSE ARCHITECTS.
MARTIN E. NELSON CONTRACTOR.



THE MORRIS PLAN
BANK
CLEVELAND
OHIO
FRANZ C. WARNER
ARCHITECT
CENTRAL STATES ENGINEERING
CONSTRUCTION COMPANY
CONTRACTORS.



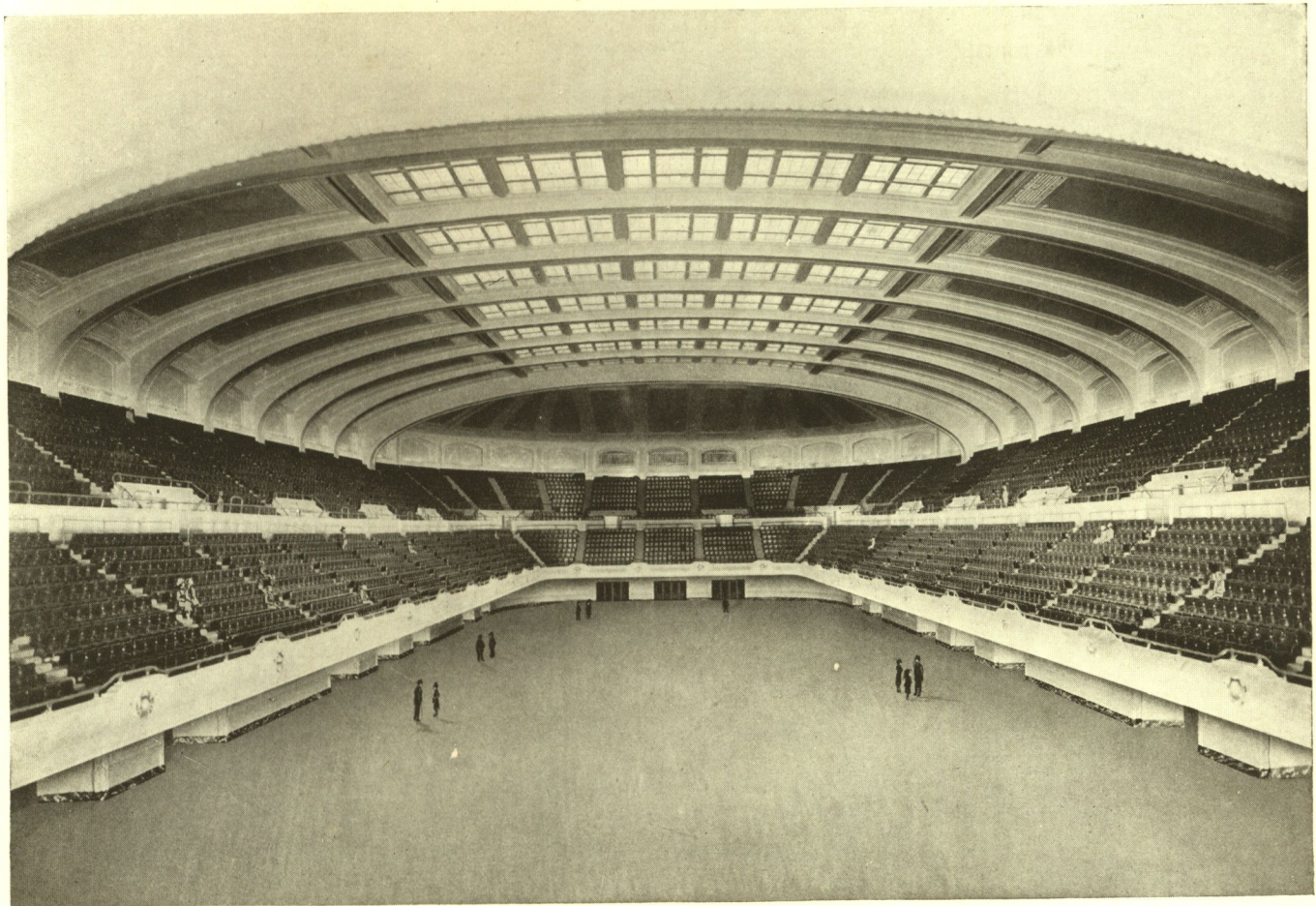
▲ MALDEN SAVINGS BANK ▲
 ▲ MALDEN ▲ ▲ MASS ▲
 ▲ MONKS & JOHNSTON ▲ ARCHITECTS ▲
 GASCOIGNE & LINENTHAL INC. CONTRACTORS.



▲ FARMERS & MERCHANTS TRUST BANK ▲
 ▲ CAPE CHARLES ▲ VIRGINIA ▲
 ▲ BENTON & BENTON ▲ ARCHITECTS ▲
 ▲ JOE W. STOUT & CO. ▲ CONTRACTORS ▲

146

STEEL CEILING LIGHTS FOR BANKS AND PUBLIC BUILDINGS

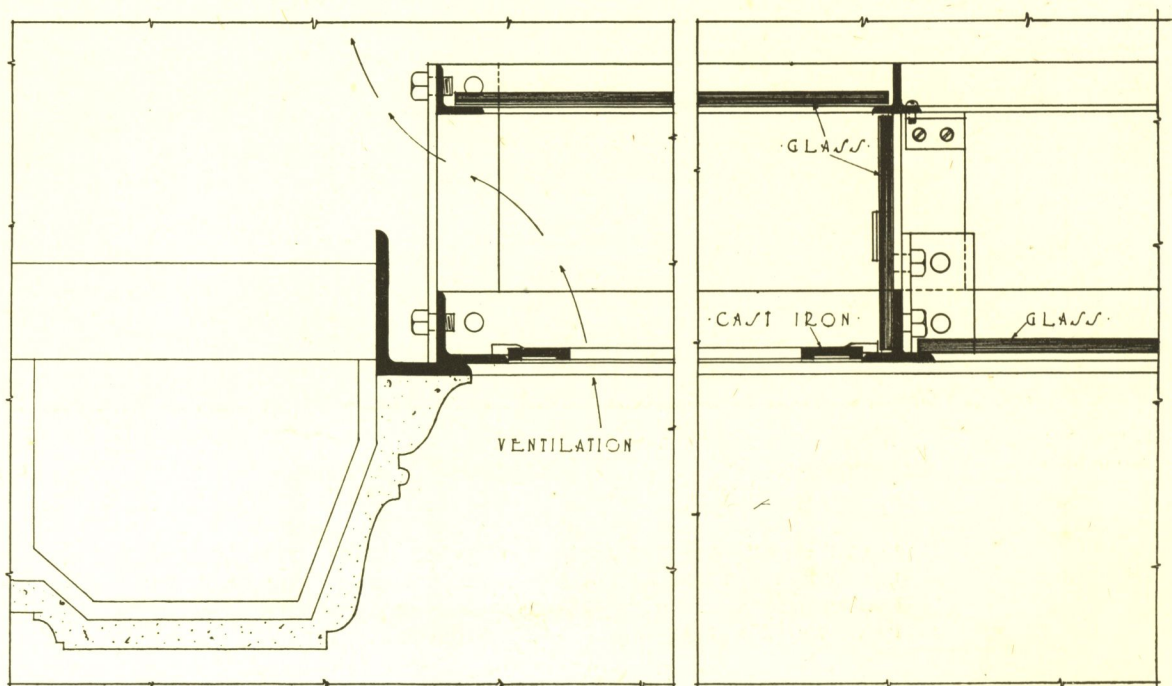
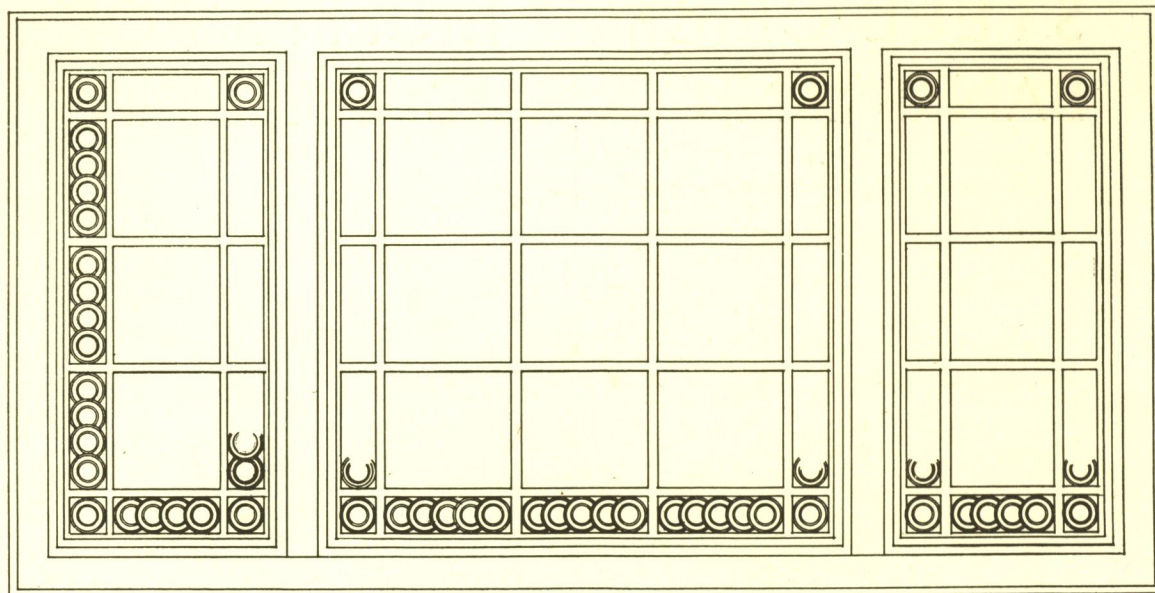


PUBLIC AUDITORIUM
CITY OF CLEVELAND

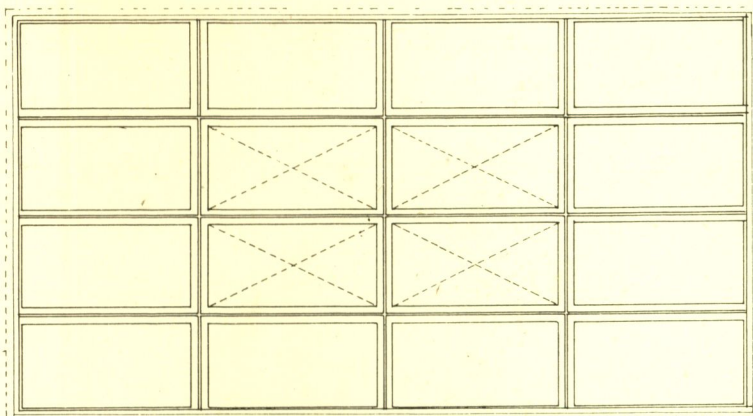
J. H. McDowell
City Architect

NOTE: IN ADDITION TO THE CEILING
LIGHTS IN THIS BUILDING, INTERNATIONAL
CASEMENTS AND "BILTIN" FRAMES WERE
FURNISHED FOR ALL EXTERIOR OPENINGS.

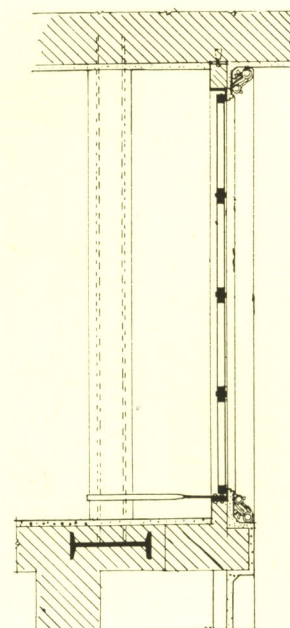
FRANK BETHUNE



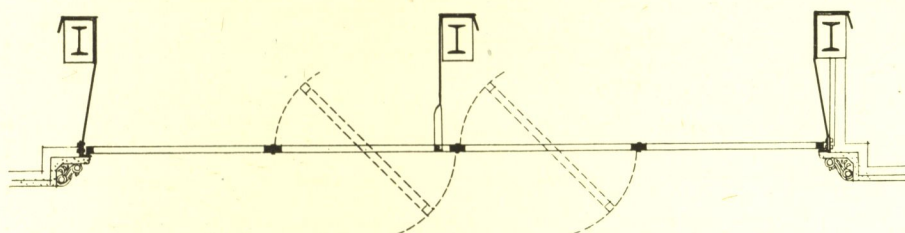
3/8" SCALE · PLAN · ONE · QUARTER · FULL SIZE · DETAILS · OF · CEILING · LIGHTS
 SHOWING · CAST · IRON · VENTILATING · PANELS · AROUND · SIDES
 FOR · WESTERN · ELECTRIC · CO · INC · HAWTHORNE · STATION · CHICAGO · ILL
 C · B · BARNES · ENGINEER · W · R · KATTELLE · ARCHITECT



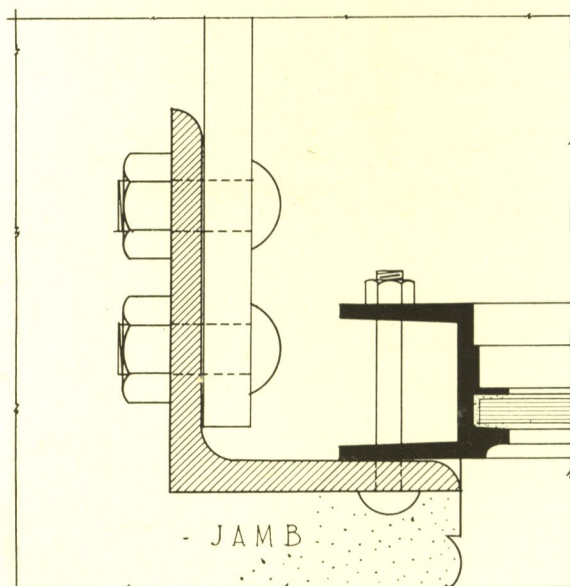
PLAN OF CEILING LIGHTS



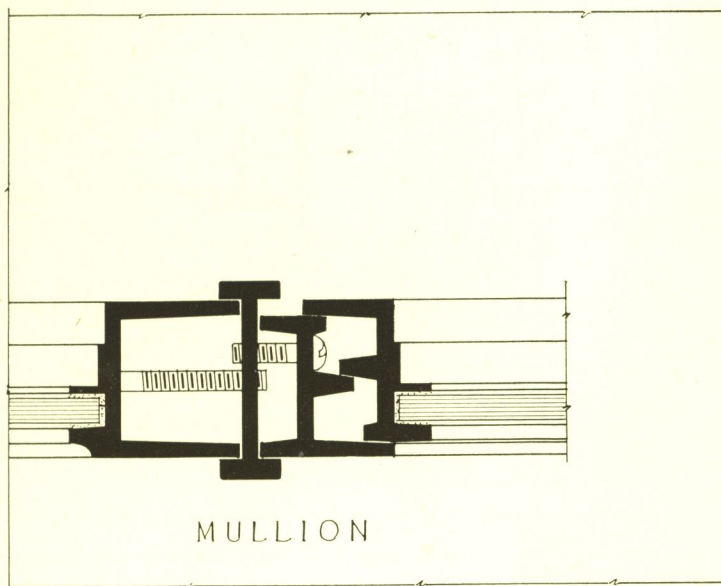
SECTION OF CEILING LIGHTS



SECTION OF CEILING LIGHTS



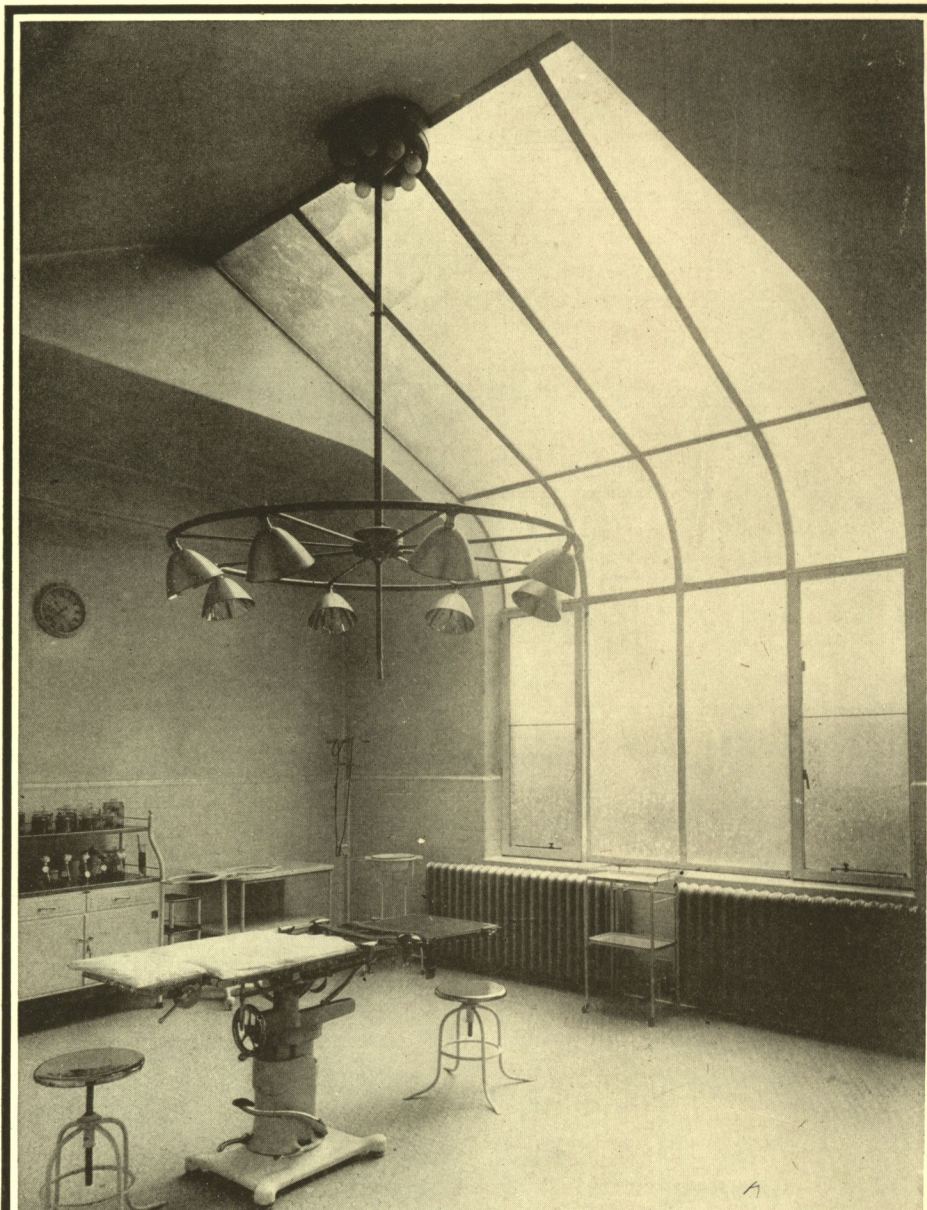
JAMB



MULLION

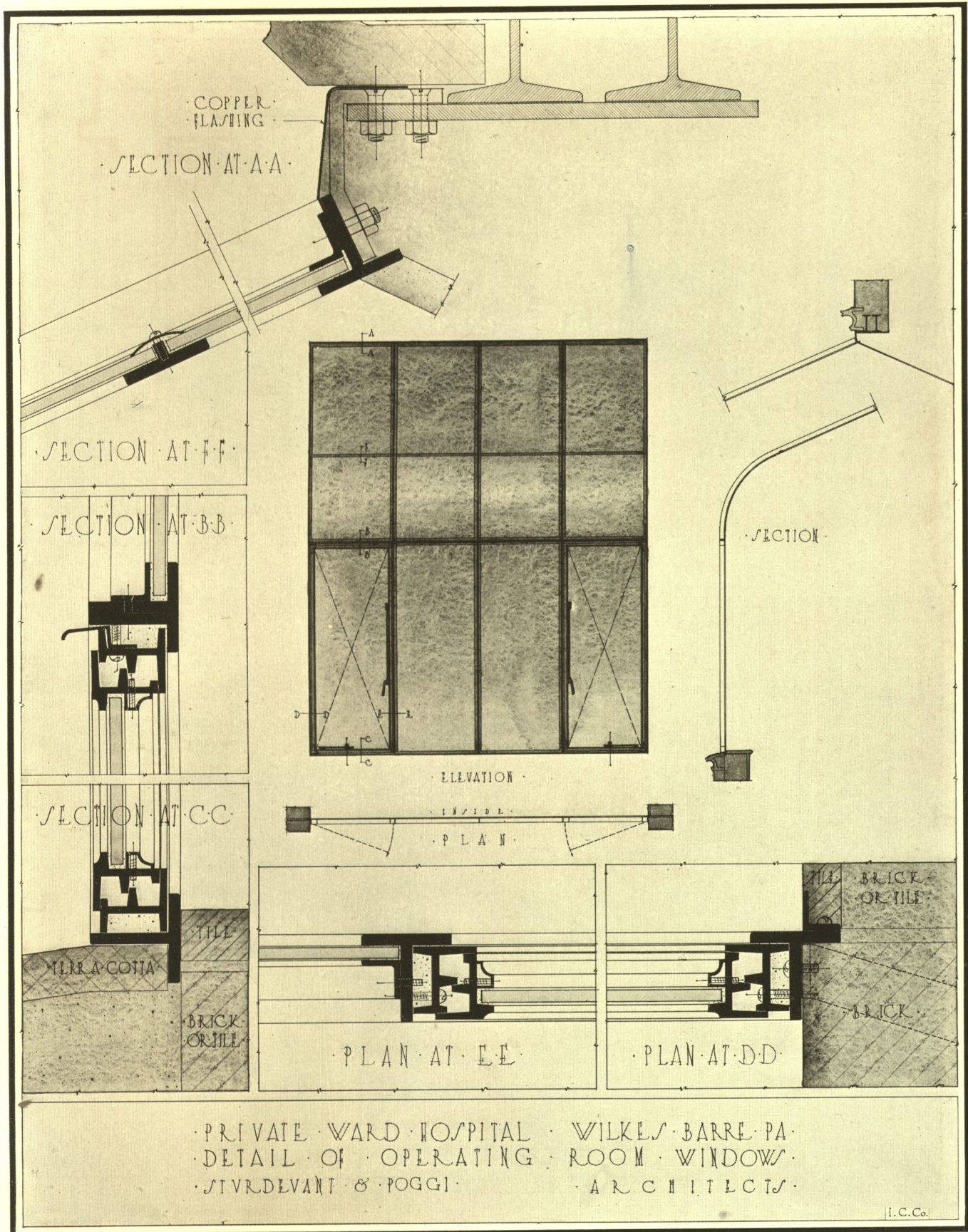
1/4 SCALE PLAN AND ONE HALF FULL SIZE DETAILS
CEILING LIGHT FOR
COMMERCIAL NATIONAL BANK
WADDY B. WOOD
ARCHITECT

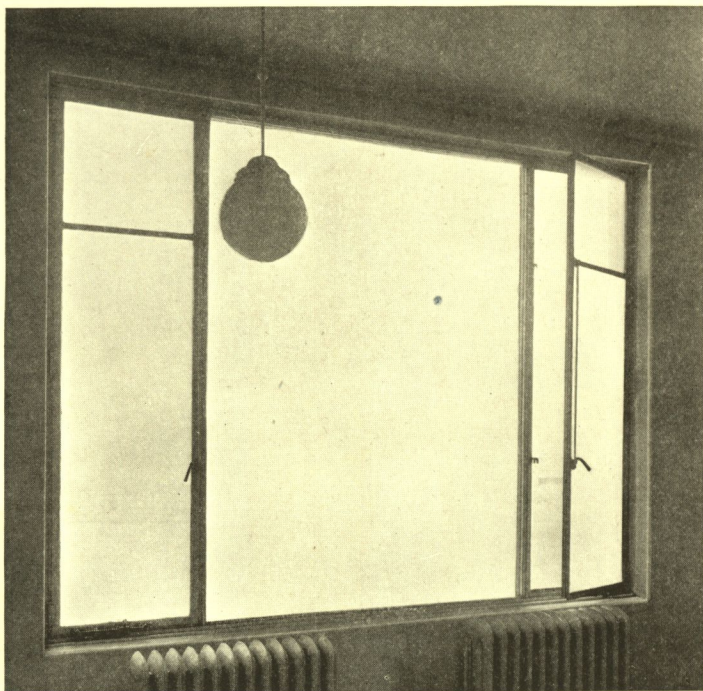
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 · WILKES · BARRE · · PENN'A ·
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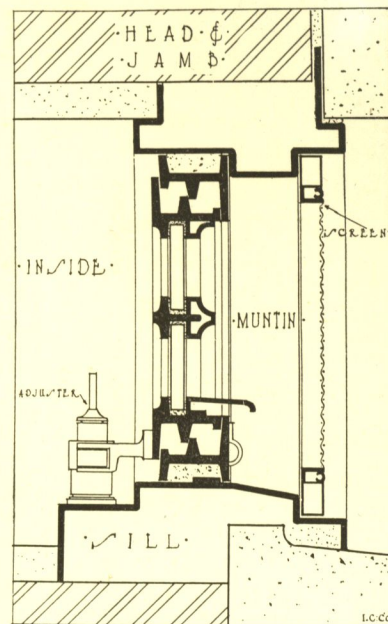
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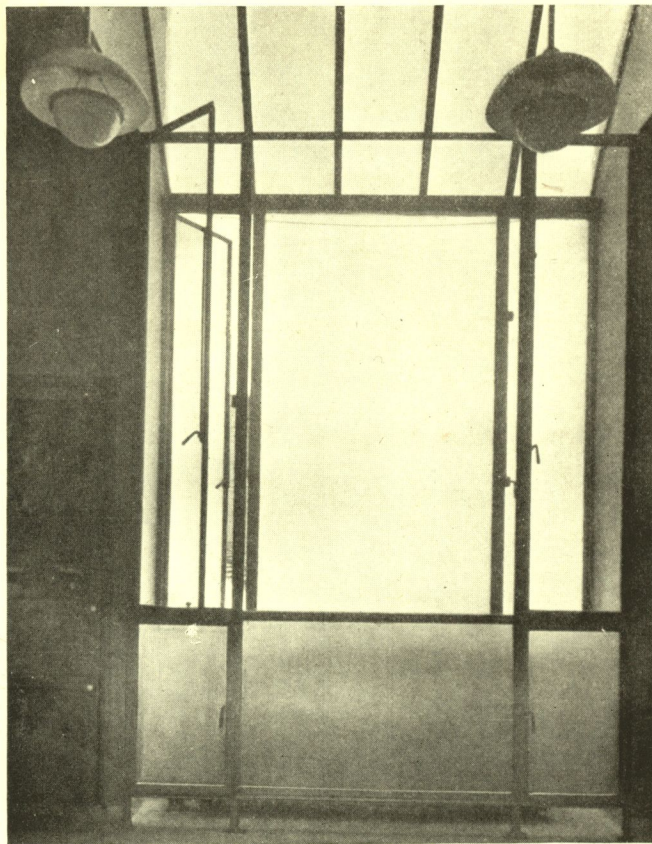


JACKSON PARK HOSPITAL, CHICAGO, ILL.

ERIC E. HALL, Architect

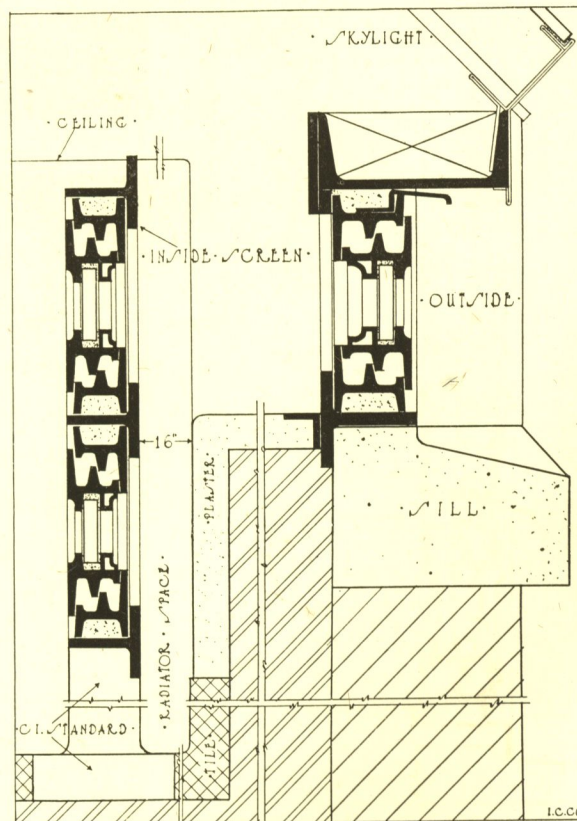


ONE-QUARTER FULL SIZE DETAIL INTERNATIONAL CASEMENTS WITH "BILTIN" FRAME. CASEMENTS SWINGING INWARDS AND FLY SCREENS OUTSIDE.



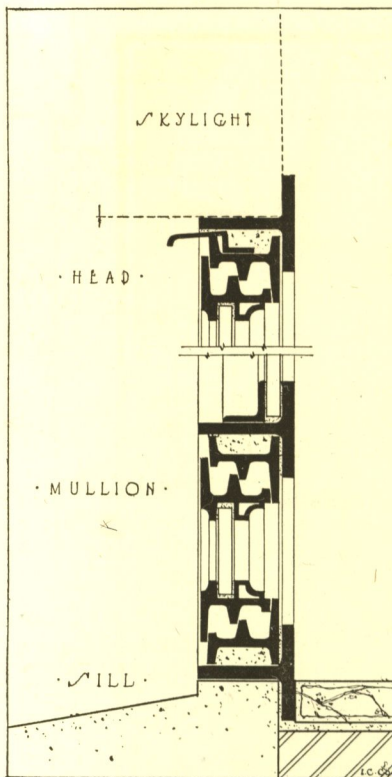
GENERAL HOSPITAL, AUGUSTA, ME.

WM. G. BUNKER, Architect. EDWARD F. STEVENS, Consulting Architect

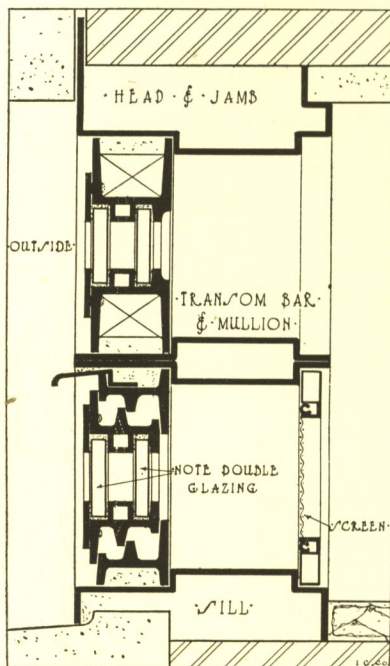


ONE-QUARTER FULL SIZE DETAIL INTERNATIONAL CASEMENTS WITH TEE SUB FRAMES AND SCREEN ON INSIDE, LATTER OPEN AT TOP AND BOTTOM.

FULL SIZE DETAILS FURNISHED ON REQUEST.



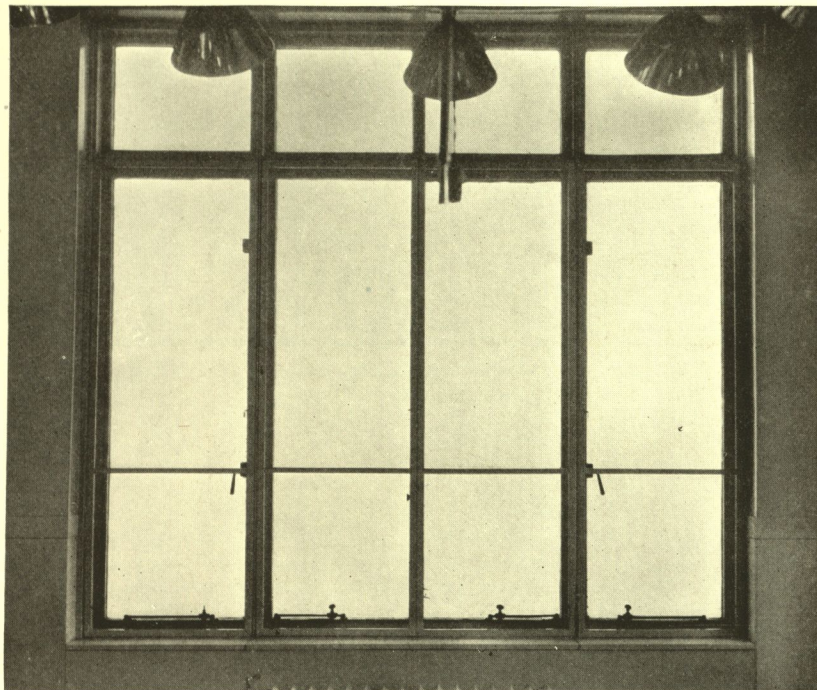
ONE-QUARTER FULL SIZE DETAIL INTERNATIONAL STEEL OPERATING ROOM WINDOWS WITH SINGLE GLAZING. NO SCREENS.



ONE-QUARTER FULL SIZE DETAIL INTERNATIONAL STEEL OPERATING ROOM WINDOWS WITH "BILTIN" FRAMES, FLY SCREENS AND DOUBLE GLAZED SASHES.

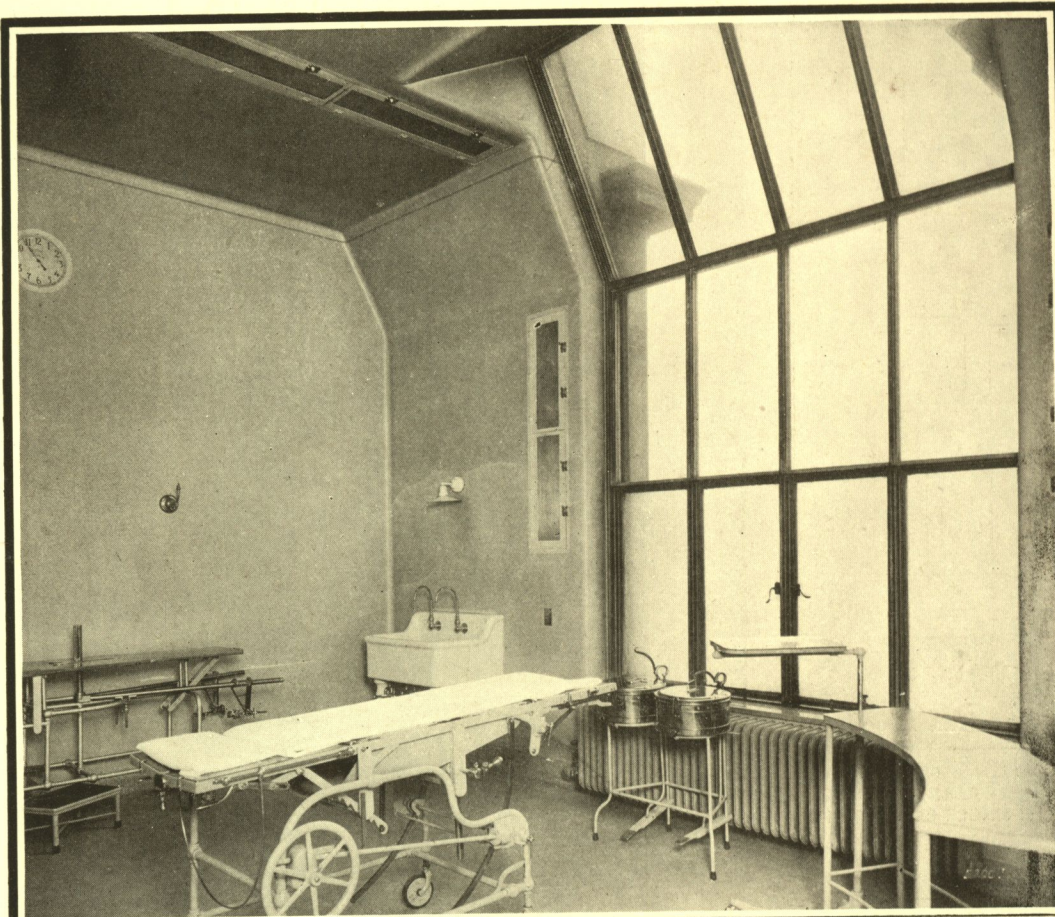


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R. E. PINGREY
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FULL SIZE DETAILS FURNISHED ON REQUEST.



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INTERNATIONAL COTTAGE CASEMENTS IN STANDARD SIZES

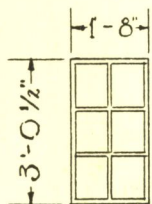


We have placed on the market casement windows of standard sizes to meet the demand for a solid rolled steel casement to sell as cheap as wood. On the following pages will be found list of standard sizes, also designs and sizes of composite openings formed by placing together standard units, together with full size details.

The hardware is in iron with all working parts in bronze. It is substantial and of neat design. All side hinged casements have projecting hinges so that glass can be cleaned from inside the room.

NOTE: PLEASE ASK FOR SEPARATE CATALOGUE
FULLY DESCRIBING THE STANDARD WINDOW.
THIS CATALOGUE CONTAINS DETAILS SHOWING
THESE WINDOWS SET TO WOOD, STONE AND TILE.

INTERNATIONAL COTTAGE WINDOWS STANDARD TYPES AND STOCK SIZES



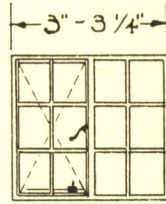
F.A.1.

4 LIGHTS $9\frac{1}{8} \times 11\frac{5}{8}$
2 " $9\frac{1}{8} \times 11$



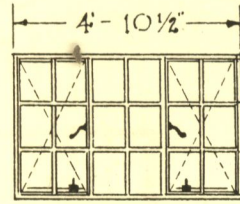
A.1.

6 LIGHTS $8\frac{7}{16} \times 11$



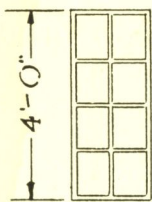
A.2.

6 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$
2 " $9\frac{1}{16} \times 11$



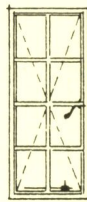
A.3.

12 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$
2 " $9\frac{1}{16} \times 11$



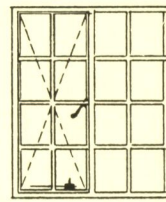
F.B.1.

4 LIGHTS $9\frac{1}{8} \times 11\frac{5}{8}$
4 " $9\frac{1}{8} \times 11$



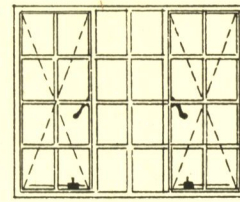
B.1.

8 LIGHTS $8\frac{7}{16} \times 11$



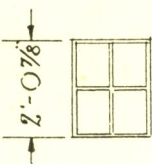
B.2.

8 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$
4 " $9\frac{1}{16} \times 11$



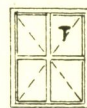
B.3.

16 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$
4 " $9\frac{1}{16} \times 11$



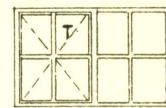
T.1.

4 LIGHTS $9\frac{1}{8} \times 11\frac{5}{8}$



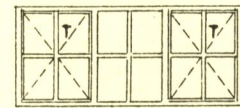
T.1.

4 LIGHTS $8\frac{7}{16} \times 11$





T.2.

4 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$

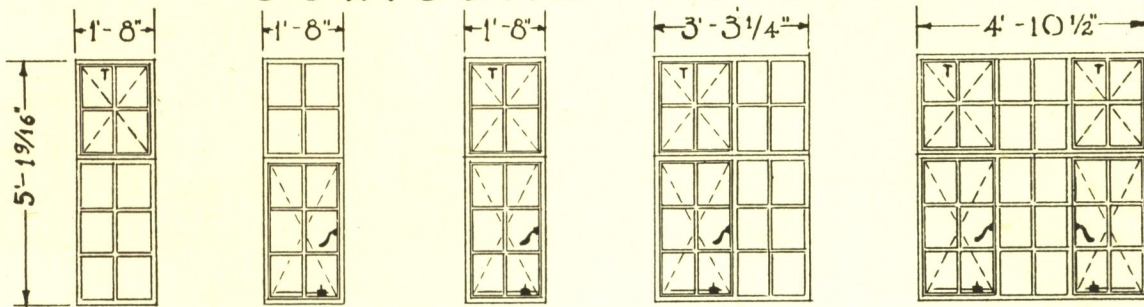


T.3.

8 LIGHTS $8\frac{7}{16} \times 11$
4 " $9\frac{1}{16} \times 11\frac{5}{8}$

NOTE - SEE PAGE #219 FOR FULL SIZE DETAILS WHICH SHOW WHERE DIMENSIONS ARE TAKEN.
ELEVATIONS ARE 1/4" SCALE AND ARE DRAWN FROM OUTSIDE.
PORTIONS MARKED  ARE CASEMENTS SIDE HINGED SWINGING OUTWARDS. IF MARKED THUS  ARE TRANSOMS TOP HINGED SWINGING OUTWARDS.
THE GLASS SIZES ARE GIVEN BELOW EACH UNIT AND ARE EXACT CUTTING SIZES.

INTERNATIONAL COTTAGE WINDOWS · COMPOSITE WINDOWS ·



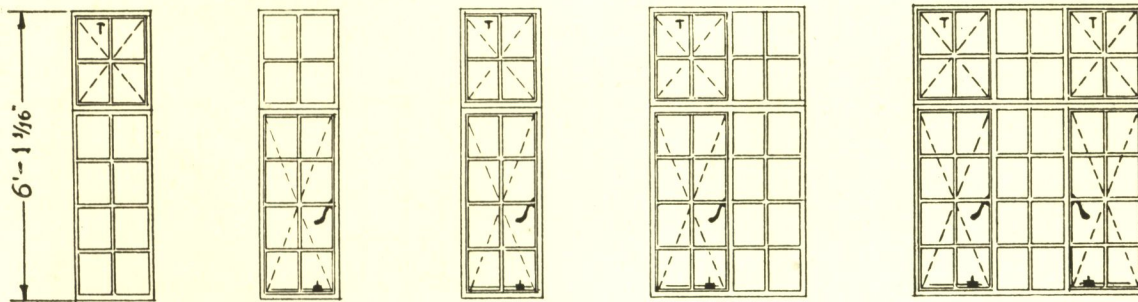
P.A.1.-T.1.

A.1.-P.T.1.

A.1.-T.1.

A.2.-T.2.

A.3.-T.3.



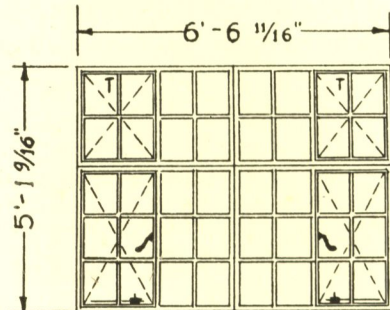
P.B.1.-T.1.

B.1.-P.T.1.

B.1.-T.1.

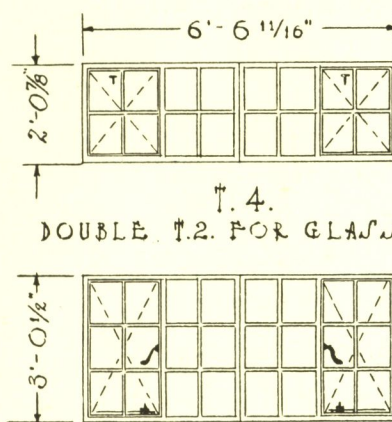
B.2.-T.2.

B.3.-T.3.



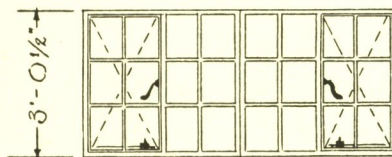
A.5.

DOUBLE A.2. & T.2. FOR GLASS.



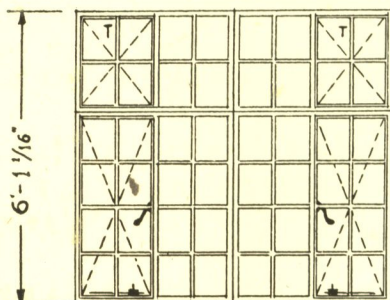
T.4.

DOUBLE T.2. FOR GLASS.



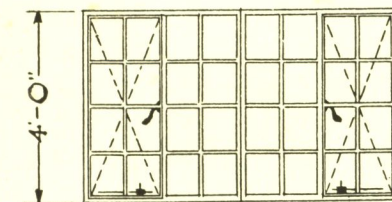
A.4.

DOUBLE A.2. FOR GLASS.



B.5.

DOUBLE B.2. & T.2. FOR GLASS.



B.4.

DOUBLE B.2. FOR GLASS.

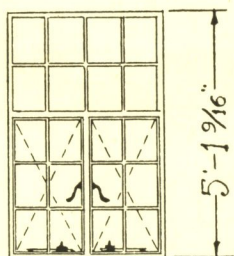
NOTES ·

· SEE · PAGE 216.
· FOR · GLASS ·
· SIZES · THE ·
· WINDOWS · ON ·
· THIS · SHEET ·
· ARE · COMBIN ·
· ATIONS · OF ·
· UNITS · SHOWN ·
· ON · PAGE 216 ·

· SEE · PAGE · *218 ·
· FOR · SUGGESTED ·
· APARTMENT · HOUSE ·
· UNITS ·

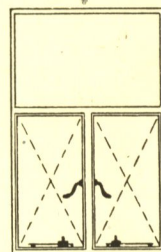
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INTERNATIONAL STANDARD WINDOW FOR APARTMENT HOUSES



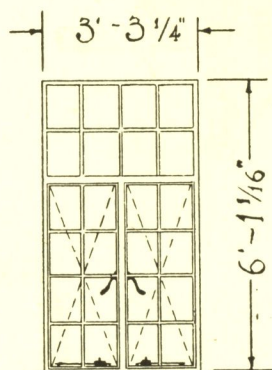
C.1.

12 LIGHTS $8\frac{7}{16}'' \times 11''$
8 " $9\frac{1}{8}'' \times 11\frac{5}{16}''$



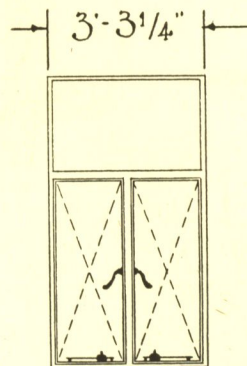
C.2.

2 LIGHTS $17\frac{1}{4}'' \times 33\frac{3}{4}''$
1 " $37\frac{3}{4}'' \times 24\frac{1}{4}''$



C.3.

16 LIGHTS $8\frac{7}{16}'' \times 11''$
8 " $9\frac{1}{8}'' \times 11\frac{5}{16}''$



C.4.

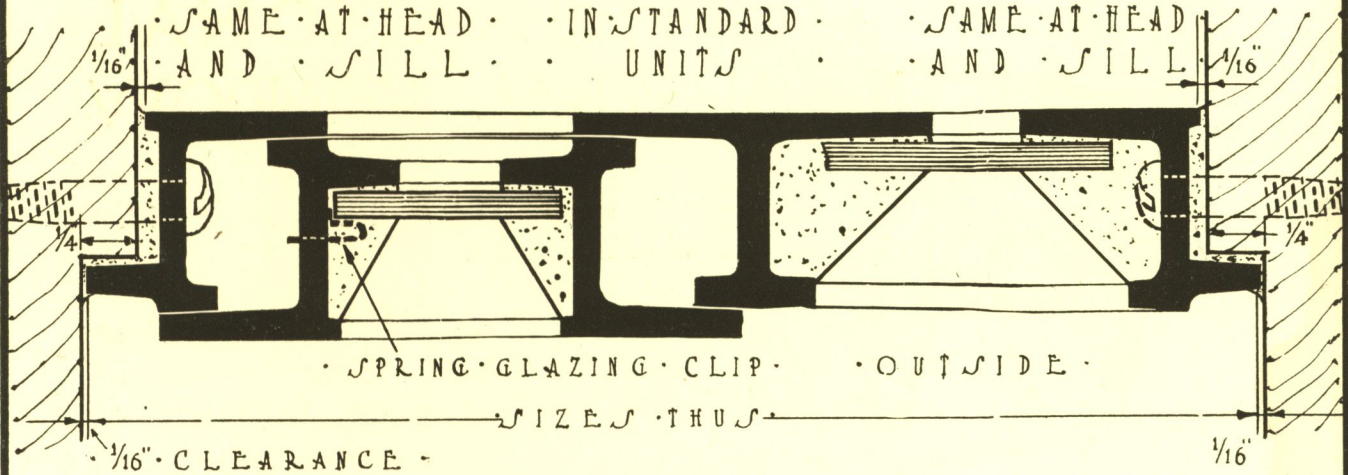
2 LIGHTS $17\frac{1}{4}'' \times 45\frac{1}{4}''$
1 " $37\frac{3}{4}'' \times 24\frac{1}{4}''$

∴ THESE TYPES ARE SHIPPED IN ONE COMPLETE UNIT AND ARE RECOMMENDED FOR USE IN CITY APARTMENTS.
∴ THE EXACT GLASS CUTTING SIZES ARE GIVEN UNDER EACH UNIT.

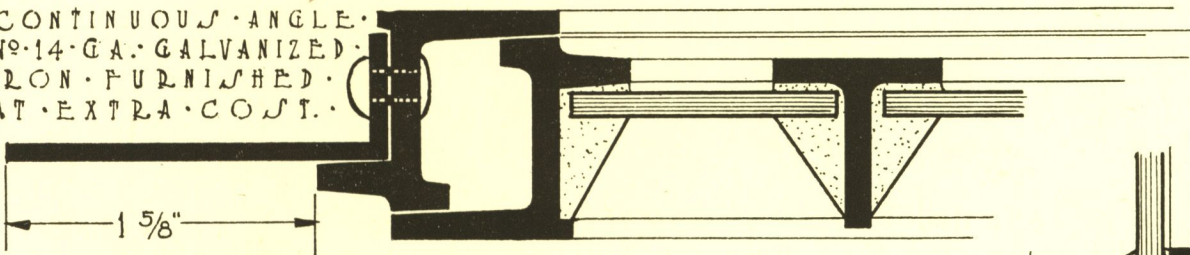
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INTERNATIONAL STANDARD WINDOWS
FULL SIZE SECTIONS

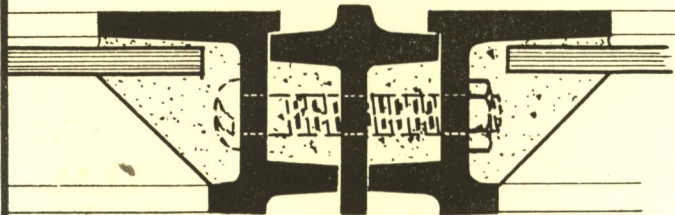
JAMB SECTION · MULLION · JAMB SECTION
SWINGING SASH · SECTION · FIXED SASH
SAME AT HEAD · IN STANDARD · SAME AT HEAD
AND SILL · UNITS · AND SILL



CONTINUOUS ANGLE
No. 14 GA. GALVANIZED
IRON FURNISHED
AT EXTRA COST

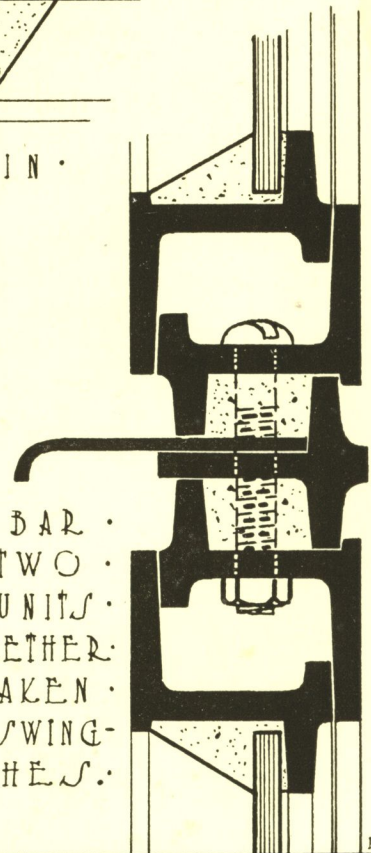


JAMB & HEAD SECTION · MUNTIN ·
FOR WINDOWS BUILT
INTO MASONRY OR
TILE WALLS

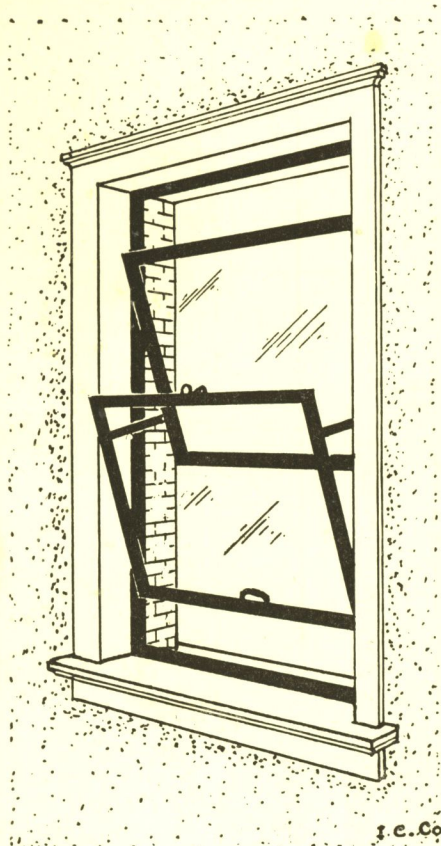


MULLION WHERE TWO
STANDARD UNITS
BOLTED TOGETHER

TRANSOM BAR ·
WHERE TWO
STANDARD UNITS
BOLTED TOGETHER
SECTION TAKEN
THROUGH SWING-
ING SASHES



I.C. Co.



INTERNATIONAL AUSTRAL WINDOW

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For schools and office buildings it makes the most scientifically ventilated window. It is durable, fireproof and weatherproof.

Shades are fitted to the sashes and act as awnings.

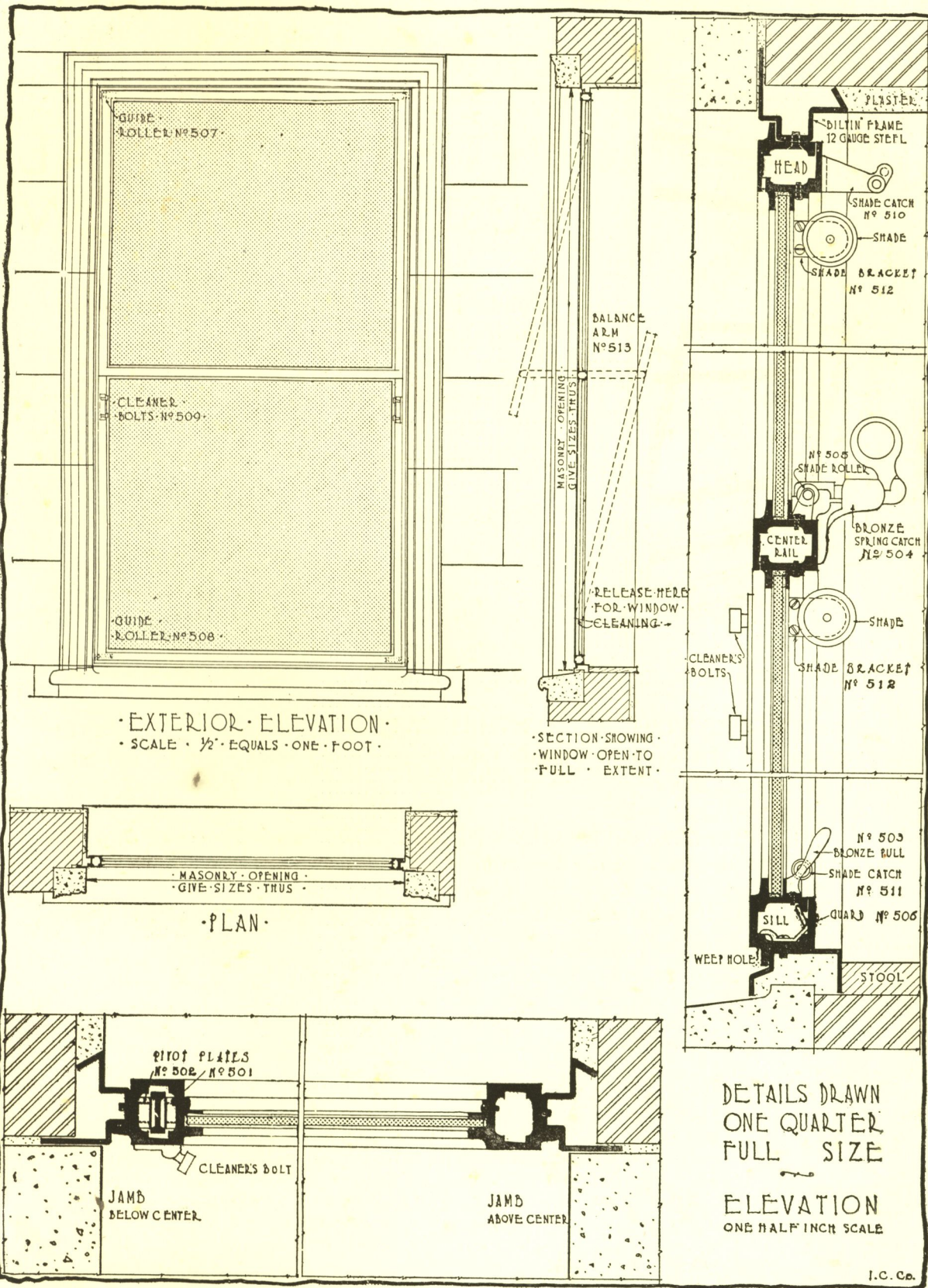
The INTERNATIONAL AUSTRAL WINDOW completely meets the demand for an attractive, fireproof and durable solid steel window for office buildings, schools, libraries and hospitals.

It can be screened, and is easily adaptable to the requirements of any type of construction and can readily be fitted to old wood box frames.

INTERNATIONAL AUSTRAL WINDOW has passed the Fire Underwriter's test and bears their label.

NOTE: WE HAVE ISSUED A 24-PAGE
CATALOGUE DEALING EXCLUSIVELY WITH
INTERNATIONAL AUSTRAL WINDOWS.
WRITE AND ASK FOR CATALOGUE NO. 6.

FRANK BETHUNE



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